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REPORT

OF

F. G. HAWORTH,

M.B.C.M., L.R.C.S., D.P.H.,

MEDICAL OFFICER OF HEALTH,

Medical Officer to the Education Committee.

POLICE SURGEON,

FOR THE

Year Ending December 31st, 1915.

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VALE HOUSE, DARWEN,
FEBRUARY,1916.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE.

Gentlemen,

I have the honour to present to you my Twenty-First Annual Report, being for the Year ending, December 31st, 1915.

I am, Gentlemen,

Your obedient Servant,

F. G. HAWORTH,
Medical Officer of Health,
Darwen Urban Sanitary Authority.

Members of the Health Committee.

1915—1916.

ALDERMAN J. TOMLINSON, J.P., Mayor.

Chairman :

ALDERMAN J. T. BALLANTYNE, M.B., C.M., J.P.

Vice-Chairman :

Councillor J. PARKINGTON.

Alderman	A. Carus, J.P., C.C.	Alderman	Jas. Tomlinson, J.P.
,,	A. T. Eccles, J.P.	,,	J. Cocker, J.P.
Councillor	Wm. Ainsworth.	Councillor	T. E. Holgate.
,,	Crossley St. John Broadbent.	,,	H. C. Jepson.
		,,	M. Meehan.
,,	G. Butterworth.	,,	R. Marsden.
,,	T. P. Davies, J.P.	,,	G. Pickup.
,,	T. Duxbury.	,,	John Pickup, J.P.
,,	E. Gibson.	,,	John B. Thornley.
,,	F. Hindle, J.P., C.C.	,,	G. P. Holden, J.P.
,,	J. Hodkinson.	,,	W. Worth, J.P.

Town Clerk..William P. Halliwell, B.A.

Assistant Town Clerk..John Derbyshire.

Nuisance Inspectors................................(South Division)—W. E. Marsden.
(North Division)—C. R. Walsh.

Superintendent of Scavenging..Joseph Niccoll.

Slaughter House and Meat Inspector.................William Bickerstaffe.

Medical Officer of Infectious Diseases Hospital..............F. G. Haworth.

School Nurse and Lady Health Visitor.......................Miss Mycock.

REPORT.

Natural and Social Condition of the Districts.

The town of Darwen is situated in a valley, Latitude 53° 41′ 25″ N. and Longitude 2° 28′ 32″ W., and runs almost due north and south, being about five miles in extent, on the highway between Blackburn on the North and Bolton on the South. The centre of the town stands 500 feet above the sea level, the higher parts of the town reaching over 800 feet above sea level, its situation favouring the free circulation of air and free exposure to sunlight.

The soil on which the town is built consists of boulder clay overlaying the sandstone or shale of the coal measures. In the middle of the valley along the riverside, gravel and sand form the subsoil, the land rises up on each side of the moorland, that on the West side forming the gathering ground.

There is only one outlying district of any importance, viz.: Hoddlesden, situate at a distance of two miles to the east, with a population of about 750.

The River Darwen runs northward through the valley.

The inhabitants are chiefly of the artisan and labouring classes. Area of town 5,959 acres. Rateable value, end of year to the Borough Rate, £172.750; Assessable Value to the District Rate, £158,691 9s. 3d.

The town is divided into six Wards:—Central, West Central, North East, North West, South East, South West.

The population, based on the Registrar General's return, is estimated for the middle of 1915 at 38,782.

MEDICAL RELIEF.

The Darwen District Nursing Association was instituted in 1890, under the auspices of the late Lady Huntington. It is carried on by voluntary contributions collected in the Mills, Churches, Chapels, and from private sources, by a Management Committee, consisting of thirty ladies and gentlemen, there is a General Committee of eighty-five ladies and gentlemen.

Amount Collected. Year.	£	s.	d.	Amount Expended. Year.	£	s.	d.
1905	621	0	0	1905	549	0	0
1911	1286	0	0	1911	1051	0	0
1912	665	0	0	1912	722	0	0
1913	990	16	4	1913	930	18	11
1914	1070	2	5	1914	891	15	1
1915	759	13	11	1915	688	13	11

There are about six Nurses, including those doing Maternity Work. The work is done under the close supervision of the local medical men and is of a very high character.

The following are the terms of payment, at a minimum charge of :—

10/- per week, for one visit per day.
15/- per week, for two visits per day.

The Maternity Nurse attends for 7/6 to 15/- per case, according to the income of the patient. When the person is too poor to pay, of course no charge is made.

POOR LAW ADMINISTRATION.

Comes under the Blackburn Union, which consists of sixty members, of which eight are sent from, and represent Darwen.

The accounts of the Guardians do not show the whole amounts expended in respect of each Township.

THE BLACKBURN AND EAST LANCASHIRE ROYAL INFIRMARY.

is an Institution standing at the Southern end of the neighbouring County Borough of Blackburn.

Darwen has not a particular number of beds at its disposal, every case sent from here is admitted without question.

Collections are made twice a year in the Mills, Workshops, Churches, and Chapels, and other sources contribute.

The Secretary, Mr. Nathan A. Smith, supplied the following information of patients from Darwen, treated in the Institution :—

	1910	1911	1912	1913	1914	1915
In-Patients	210	225	221	242	242	259
Out-Patients	484	402	449	460	498	565

Based upon the ordinary Expenditure for the Year, the Cost of Treatment of these Patients was £1,249.

Population.

The following has been received from the Office of the Registrar-General, Somerset House.

Estimated civil population 38,782.

" The War has made it impossible to adhere to the methods of estimation of local and national population hitherto in use. Men of military age have been largely drafted to military training centres, or sent abroad with the Army, and the remainder of the male adult population as well as, to a lesser extent, the female population has migrated on an unprecedented scale into areas other than those in which it was enumerated at the last census.

Under these circumstances estimates of local populations based on the census returns were clearly inadmissible, and it became necessary to search for a substitute. Fortunately this was ready to hand in the shape of the National Register, which referred to a date only six weeks removed from that for which estimates were required, viz. : the middle of the year 1915. No doubt this does not form a perfect record, as it is known that a number of persons escaped registration.

From investigations however which have been made in another connection it appears that the defects in the register taken as a whole are not on such a scale as to affect seriously the estimates of population based upon it.

By the method described below it was possible to derive from these returns estimates of the civil population only of each administrative area on August 15th. No attempt has been made to increase these by allowance for members of the fighting forces because, apart altogether from the difficulty of ascertaining the average military population of each district during the year, experience has shown that under present circumstances only civilian deaths can be tabulated for local areas. If military deaths were to be included they would have either to be debited to the area in which they occurred, a course which would render the death rates of the districts containing large military hospitals meaningless, or to the area of residence. An attempt made to pursue the latter course has had to be abandoned owing to military authorities having been unable to furnish to the registrars the necessary information. It has been found necessary therefore to limit the tabulation of deaths by local areas to deaths of civilians, and under these circumstances the civilian population is obviously the proper one to use for the calculation of death rates.

An additional advantage in the use of National Register populations is, that these consist of habitual residents in each locality and not merely of the persons who happened to be present therein on a certain date.

The deaths tabulated from the year 1911 onwards are also those of habitual residents only, and therefore the use hitherto of populations which, in certain cases, include very large institutional elements chiefly composed of non-residents introduced in these cases serious errors into the rates calculated from them, as pointed out in the Registrar-General's Annual Report. This source of error now of course disappears for the time being, and in such districts an unavoidable break in the continuity of the previously misleading rates will result. In any case however the maintenance of continuity is under present circumstances obviously impossible; and it is felt that the present estimates will furnish death-rates calculated to indicate as nearly as may be the health conditions of the civil population.

The method by which the estimates of civil populations have been derived from the National Register may now be described.

The ratio of the total population less the males aged 15-65 years to the numbers of females aged 15-65 years at the date of the Census was calculated for each administrative area, and this ratio was applied to the number of females on the National Register, the resulting product plus the number of males aged 15-65 years on the National Register was taken to be the number of the civil population of the district. A small adjustment was necessary in order to make the sum of the estimates for the several districts equal to the estimates for the country as a whole made on the same basis. Further, the population in institutions was not registered, and this (taken to be the same in the aggregate for England and Wales as at census date) together with a number of persons of no fixed abode were distributed evenly over the whole country. These two adjustments raised the original estimates by about one per cent.

BIRTH RATES.

The question of the population to be used for the calculation of birth rates has also required consideration. The births registered are not only those of the children of civilians, and the estimates of civil population therefore form an unsuitable basis for the calculation of birth rates.

It is impossible to frame any estimate that would give reliable birth rates, and it is suggested therefore that the birth rates for 1915 be based on the existing estimates of total population for 1914. These will sometimes be seriously in error owing to extensive migration having occurred. Although in such cases the Registrar-General does not possess the local information necessary for applying any correction, it is not suggested that this fact need preclude Medical Officers of Health from making use of their opportunities in this direction.

Difficulties, which will probably prove insoluble, remain as to estimation of populations in sex and age groups and the standardizing factors dependent upon them. Moreover the present method of estimation will obviously not apply to 1916 or subsequent years unless the National Register is effectively kept up to date or further enumeration made. Nothing can at present be decided as to these matters.

The Registrar-General has decided to exclude from his returns the deaths of all members of the armed forces.

Wards.	Census, 1911	Estimated for middle of 1914	Estimated for middle of 1915
CENTRAL	6,698	6,629	6,264
WEST CENTRAL	3,947	3,975	3,808
NORTH EAST	9,181	9,223	8,703
NORTH WEST	7,055	7,728	7,290
SOUTH EAST	6,882	7,008	6,610
SOUTH WEST	6,569	6,475	6,107
BOROUGH	40,332	41,038	38,782

The Census returns for 1911 give the following figures regarding families or separate occupiers :—

Wards.	1911
CENTRAL	1668
WEST CENTRAL	912
NORTH EAST	2165
NORTH WEST	1758
SOUTH EAST	1607
SOUTH WEST	1564
Total	9674

Births.

The number of Children born during the year is 99 less than in the previous year. The rate has been calculated on the population of 1914 of 41,038, which brings the rate 2.41 per 1,000 lower than in 1914.

There were 330 male and 333 female children born and registered during the year. To these must be added 2 male and 1 female babies born in other places of Darwen parents and transferred to us, raising the total number of births to 666. This gives a Birth Rate for the Borough for the year of 16.23 per 1,000, a decrease of 2.41 per 1,000 over the previous year.

April had the highest Birth Rate of 19.88 per 1,000, and October and December the lowest rate of 11.98 per 1,000.

The average Birth Rate for the last 34 years is 25.52 per 1,000 of the population. The highest Annual Rate was in 1883, when it was 34.39 per 1,000, and the lowest was in 1915, when it was 16.23 per 1,000 of the population.

It is interesting to study the Birth Rates in the various wards of the town. Taking the rate of the Borough as the average three wards are below this, viz., West-Central 13.33 per 1,000, North-West 12.03 per 1,000, and South-West 15.13 per 1,000. The rest were above this average, Central, North-East, and South-East the highest being South-East Ward.

TABLE showing the Estimated Populations, Number of Births, and the Birth-Rates for the Darwen Sanitary District since 1882 inclusive.

Year.	Estimated Population at the Middle of Each Year.	Total Births	Birth-Rate
1801	3,587	...	...
1811	4,411	...	...
1821	6,711	...	...
1831	6,972	...	...
1841	9,348	...	...
1851	11,702	...	...
1861	16,492	...	...
1871	21,277	...	...
1881	27,589	...	...
1882	30,295	987	32.57
1883	30,733	1057	34.39
1884	31,360	978	31.18
1885	31,720	1015	31.99
1886	32.185	965	29.98
1887	32,491	1000	30.77
1888	33,500	994	29.67
1889	34,500	972	28.17
1890	36,500	1075	29.45
1891	34,192	1115	32.60
1892	35,000	1057	30.20
1893	35,500	955	26.90
1894	36,000	1039	28.86
1895	36,000	1128	31.33
1896	36,652	1032	28.15
1897	37.500	1114	29.70
1898	37.500	1131	30.16
1899	37.900	1062	28.02
1900	38,600	980	25.38
1901	38,212	858	22.45
1902	38,712	891	23.01
1903	39,114	941	24.05
1904	39,516	820	20.75
1905	39,918	818	20.49
1906	41,164	811	19.70
1907	41,864	876	20.92
1908	42,266	895	21.17
1909	42,668	816	19.12
1910	43.000	776	18.05
1911	40,398	756	18.71
1912	40,611	690	16.99
1913	40,824	738	18.08
1914	41,038	765	18.64
1915	41,038	666	16.23

Average for the last 34 years, 25.52.

BIRTH-RATES IN THE VARIOUS WARDS.

Year.	C.	W.C.	N.E.	N.W.	S.E.	S.W.	Borough.
1898	31.3	28.3	33.9	24.2	29.9	32.2	30.5
1899	26.7	24.7	31.4	24.7	29.5	29.7	28.4
1900	23.37	28.29	25.00	28.35	24.58	27.13	25.79
1901	22.45	22.25	19.94	24.78	20.26	23.53	21.54
1902	24.8	19.1	24.2	21.4	20.9	24.6	23.0
1903	26.2	21.4	26.3	19.9	23.8	23.3	24.0
1904	19.3	18.8	22.4	25.4	19.8	18.4	20.7
1905	17.8	23.1	23.5	20.4	18.0	19.8	20.4
1906	19.23	19.25	21.11	19.82	17.47	20.53	19.70
1907	16.18	23.63	22.14	23.63	20.58	20.92	20.92
1908	17.72	20.65	22.89	23.41	23.34	18.97	21.17
1909	17.82	21.85	18.74	21.25	19.60	17.44	19.12
1910	14.76	20.35	20.57	22.61	17.77	13.63	18.05
1911	16.29	20.76	20.02	16.60	18.86	20.26	18.71
1912	16.49	17.94	18.69	16.00	14.86	17.90	16.99
1913	17.15	17.14	20.95	15.16	18.22	18.75	18.08
1914	19.91	19.62	18.65	16.43	19.26	18.68	18.64
1915	16.59	13.33	18.65	12.03	19.98	15.13	16.23
Averages for 18 Years.	20.22	21.14	22.72	20.92	20.92	21.16	21.22

ILLEGITIMATE BIRTHS.

20 Children were born out of wedlock during the year, this gives a rate of 3.66 % of total births of erroneously called "Love Babies." Two of these were inward transfer births. Since 1901 the average annual number is 23, 1910 showed the lowest for that period, viz., 16.

The rate per cent. of Births averages 2.95, the highest was 4.02 % in 1904.

The Infantile Mortality of Illegitimates averages for the past ten years 219 per 1,000 births; the same rate for last year was 231. The rate for the whole of the Births was 112. If we could eliminate the large death rate of these unfortunate babies our Infantile Mortality Rate would be materially reduced; one must take the bad with the good.

Table showing number of Illegitimate Births, etc., during the past 15 years.

Year.	Number of Births.	Rate % of Total Births.	No. of Deaths under 1 Year.	Death-rate per 1,000 Births.
1901	21	2.45	...	...
1902	22	2.47	...	...
1903	23	2.44	...	...
1904	33	4.02	...	...
1905	25	3.06	8	320
1906	28	3.45	6	214
1907	29	3.31	5	172
1908	18	2.01	6	333
1909	29	3.55	4	138
1910	16	2.06	5	313
1911	25	3.31	8	348
1912	18	2.61	3	167
1913	21	2.85	5	238
1914	28	3.66	2	71
1915	20	3.00	2	100
Average	23	2.95	5	219

ILLEGITIMATE BIRTHS.

	Number.	Percentage of Births.
JANUARY	3	4.55
FEBRUARY	3	5.77
MARCH	0	0.00
APRIL	1	1.47
MAY	1	1.79
JUNE	1	1.43
JULY	1	1.92
AUGUST	1	1.56
SEPTEMBER	3	5.77
OCTOBER	1	2.44
NOVEMBER	1	2.00
DECEMBER..............................	4	9.75
	20	3.00

BIRTHS IN WARDS, 1915.

	Central.		West-Central.		North-East.		North-West.		South-East.		South-West.		Total.		Rate per 1,000 estimated Pop'lation
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
January	2	6	2	8	5	8	1	6	6	6	6	10	22	44	19.29
February	3	3	3	5	7	11	5	2	5	3	2	3	25	27	15.20
March	4	12	..	2	4	6	3	2	5	5	4	4	20	31	14.91
April	6	5	3	2	8	15	3	4	8	5	6	3	34	34	19.88
May	3	6	1	3	7	7	2	4	5	8	3	7	21	35	16·37
June	5	1	3	1	9	2	9	7	14	3	7	9	47	23	20.47
July	4	6	2	2	7	5	5	4	4	6	3	4	25	27	15.20
August	5	7	1	4	12	4	6	3	8	6	4	4	36	28	18.71
September	6	5	1	2	9	3	3	3	6	7	1	6	26	26	15.20
October	4	3	2	2	12	2	..	4	5	2	2	3	25	16	11.98
November	4	5	1	0	5	8	7	5	9	4	..	2	26	24	14.62
December	2	3	2	1	11	5	3	2	4	6	3	2	25	19	11.98
	48	62	21	32	96	76	47	46	79	61	41	57	332	334	16.23
TOTAL	110		53		172		93		140		98		666		
Population	6,629		3,975		9,223		7,728		7,008		6,475		41,038		
Birth-rate	16.59		13.33		18.65		12.03		19.98		15.13		16.23		

The following Table shows the number of Births and the percentage of these attended by Medical Men during the last eighteen years :—

Years.	No. of Births.	Attended by Medical Men.	
		Number.	Percentage.
1898	1131	815	72.06
1899	1062	653	61.48
1900	980	540	55.10
1901	858	420	48.95
1902	891	401	45.00
1903	941	461	48.99
1904	820	421	51.34
1905	818	411	50.24
1906	811	376	46.36
1907	876	394	44.97
1908	895	427	47.71
1909	816	389	47.67
1910	776	352	45.36
1911	756	350	46.30
1912	690	288	41.74
1913	738	363	49.19
1914	765	337	44.05
1915	666	269	40.39

RETURN OF VACCINATION FOR DARWEN, 1915.

MONTHS.	Successful Vaccination.	Died Unvaccinated.	Insusceptible.	Exempted.	Postponed.	Removed out of Town and Traced.	Removed and Cannot Trace	Unaccounted for	Successfully vaccinated each quarter .
January	26	7	0	32	0	1	0	0	
February	18	9	0	23	1	1	0	0	
March ...	20	1	0	30	0	0	0	0	64
April	31	5	0	31	0	1	0	0	
May	23	5	0	27	1	0	0	0	
June	26	5	0	36	0	0	1	2	80
July	18	7	0	22	4	0	0	1	
August	23	3	0	34	0	0	1	3	
September	15	3	0	28	2	0	0	4	56
October...	4	..	0	22	0	2	0	13	
November	2	1	0	23	0	0	1	23	
December	3	6	0	5	0	0	0	27	9
	209	52	0	313	8	5	3	73	209

VACCINATION.

Year.	Births.	Successfully Vaccinated.	Rate per cent. Vaccinated.
1899	1062	851	80.1
1900	980	705	71.9
1901	858	651	75.9
1902	891	765	85.9
1903	941	750	79.7
1904	820	662	80.7
1905	818	618	75.6
1906	811	593	73.1
1907	876	597	68.2
1908	895	447	49.9
1909	816	294	36.0
1910	776	275	35.4
1911	754	280	37.1
1912	690	204	29.57
1913	738	232	31.44
1914	765	271	35.42
1915	666	209	31.38

At the time of writing this report there have been over 50 cases of Small Pox in Lancashire, fairly well distributed over the Manchester and Wigan districts. The fact that our soldiers are serving in almost every part of the world it is one of the dangers to the civil population on the return of these men on furlough. Probably many of these cases have been traced to returned soldiers.

With all the faith I have in Vaccination, and appreciating to the full the advantages it has served to this and other countries, especially at the time when sanitation was not so complete as at present, there is a certain element of danger in wholesale vaccination as practiced in times gone by for the reason that in isolated cases of Small Pox among vaccinated children the attacks were so mild as to escape observation until a great deal of mischief has been done.

Therefore we appeal to all parents to send for their medical adviser as soon as possible in the event of suspicious cases arising, to isolate the suspected one, and for all who have come in contact with the suspected one to submit themselves to vaccination. If these instructions are carried out there need be no fear of an epidemic. It is in the mild cases where the danger lies.

Marriages.

The number of Marriages solemnized in Darwen during the year ending December 31st, 1915, was as follows:—

Church of England	199
Nonconformist Places of Worship	172
Total	371

This means that 742 people were united in the bonds of wedlock, and is at the rate of 19.13 per 1,000 of the population, as compared with 14.47 per 1,000 in the previous year.

Year.	Births.		Deaths.		Marriages	
	Number.	Rate.	Number.	Rate.	Number.	Rate.
1882	987	32.57	650	21.45	490	16.0
1883	1057	34.39	518	16.85	478	15.5
1884	978	31.18	595	18.97	444	14.1
1885	1015	31.99	489	15.41	480	15.1
1886	965	29.98	641	19.91	540	16.7
1887	1000	30.77	716	22.03	558	16.6
1888	994	29.67	600	17.90	616	18.2
1889	972	28.17	544	15.76	570	16.5
1890	1075	29.45	673	18.43	586	16.0
1891	1115	32.60	660	19.30	648	18.7
1892	1057	30.20	641	18.31	670	19.1
1893	955	26.90	677	19.07	592	16.7
1894	1039	28.86	542	15.05	640	17.7
1895	1128	31.33	640	17.77	676	18.7
1896	1032	28.15	627	17.10	696	18.9
1897	1114	29.70	651	17.36	688	18.3
1898	1131	30.16	632	16.85	700	18.6
1899	1062	28.02	647	17.07	666	17.5
1900	980	25.38	789	20.44	532	13.7
1901	858	22.45	620	16.22	576	15.0
1902	891	23.01	569	14.69	606	15.6
1903	941	24.05	501	12.80	612	15.6
1904	820	20.75	606	15.33	606	15.3
1905	818	20.49	562	14.07	578	14.4
1906	811	19.70	540	13.11	744	18.0
1907	876	20.92	527	12.58	702	16.7
1908	895	21.17	550	13.01	636	15.1
1909	816	19.12	616	14.44	684	16.0
1910	776	18.05	573	13.33	610	14.2
1911	754	18.66	641	15.87	598	14.8
1912	690	16.99	563	13.86	710	17.5
1913	738	18.08	579	14.18	716	17.5
1914	765	18.64	595	14.49	594	14.4
1915	666	16.23	590	15.21	742	19.1
Average 34 Years....	934	25.52	605	16.42	617	16.5

Deaths in Regard to Occupation.

TRADES AND DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Architect.														
Apoplexy	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Accountant.														
Apoplexy	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Baker.														
Inquest									2	...	...	...	2	...
Bright's Disease	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	...	...	...	...	...	...	3	...	...	...	3	...
Bank Manager.														
Pneumonia	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Borough Surveyor.														
Bright's Disease	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Building Contractor.														
Heart Disease	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Bronchitis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Inquest	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	...	...	...	...	...	...	2	...	1	...	3	...
Brass Moulder.														
Cancer of Stomach	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Beer Seller.														
Arterio Sclerosis											1	...	1	...
Blacksmith														
Cancer of Pancreas	...	...	...	...	...	...	1	...	...	...	...	...	1	...

Deaths in Regard to Occupation.—(Continued).

TRADES AND DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Carpet Weaver.														
Acute Pharyngitis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Clerk.														
Cancer of Stomach	...	...	...	...	...	...	1	...	...	...	...	...	1	...
Phthisis	...	...	1	...	...	...	...	...	...	...	...	...	1	...
Peritonitis	...	...	1	...	...	...	...	...	...	...	...	...	1	...
	...	...	2	...	...	...	1	...	...	...	...	...	3	...
Charwomen.														
Arterio Sclerosis	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Heart Disease	...	...	...	...	...	...	...	...	...	1	...	...	...	1
	...	...	...	...	...	...	...	...	...	1	...	1	...	2
Carter.														
Cancer of Hip	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Chemist.														
Perforated Duodenal Ulcer	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Clogger.														
Senile Decay	...	...	...	...	...	...	...	...	...	...	1	...	1	...
General Paralysis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Enlarged Prostate	...	...	...	...	...	...	...	...	...	...	1	...	1	...
	...	...	...	...	...	...	...	...	...	...	3	...	3	...
Confectioner.														
Heart Disease	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Club Caretaker.														
Hepatitis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Colour-Mixer.														
Cerebral Embolism	...	...	...	...	...	...	...	...	...	...	1	...	1	...

Deaths in Regard to Occupation.—(Continued).

TRADES AND DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Coal Miners.														
Apoplexy	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Cancer of Œsophagus	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Cancer of Tongue	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Cancer of Pancreas	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Influenza	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Chronic Cystitis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Heart Disease	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Softening of Brain	...	...	...	...	...	...	...	...	...	...	1	...	1	...
	...	...	...	...	...	...	...	...	4	...	4	...	8	...
Coal Merchant.														
Cancer of Rectum	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Colliery Surface Hauler.														
Cerebral Embolism	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Co-operative Stores Hallkeeper.														
Apoplexy	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Core-Maker (Iron Foundry)														
Pleurisy	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Corporation Building Inspector.														
Apoplexy	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Cotton Drawer-in.														
Chronic Nephritis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Apoplexy	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	...	...	...	...	...	...	2	...	...	...	2	...
Cotton Mill Caretaker.														
Septic Abscess	...	...	...	...	...	...	...	...	1	...	...	...	1	...

Deaths in Regard to Occupation,—(Continued).

TRADES AND DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Cotton Mill Firebeater.														
Heart Disease	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Cotton Mill Engine Tenter.														
Gangrene of Lung	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Cotton Tape Sizer.														
Senile Decay	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Bright's Disease	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	...	...	...	...	...	...	1	...	1	...	2	...
Cotton Overlookers.														
Acute Sclerosis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Pulmonary Congestion	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Apoplexy	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Heart Disease	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Senile Decay	...	...	...	...	...	...	...	...	...	...	1	...	1	...
	...	...	...	...	...	...	...	...	3	...	2	...	5	...
Cotton Clothlookers.														
Cancer of Pylorus	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Apoplexy	...	...	...	...	...	...	1	...	...	...	...	...	1	...
Enteric Fever	...	...	...	...	1	...	...	...	...	...	...	...	1	...
	...	...	...	...	1	...	1	...	...	...	1	...	3	...
Cotton Twisters.														
Phthisis	...	...	...	...	1	...	...	...	...	...	...	...	1	...
Suicide (cutting throat)	...	...	1	...	...	...	...	...	...	...	...	...	1	...
Suicide (drowning)	...	...	...	...	...	...	1	...	...	...	...	...	1	...
Inquest	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	1	...	1	...	1	...	1	...	...	...	4	...

Deaths in Regard to Occupation.—(Continued).

TRADES AND DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Cotton Warpers.														
Nephritis	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Heart Disease	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Ulceration of Leg	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Bronchitis	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Epilepsy	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Uncertified	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Cancer of Stomach	...	...	...	...	...	...	...	...	...	1	...	...	...	1
	...	...	...	...	...	...	...	...	...	6	...	1	...	7
Cotton Winders.														
Bright's Disease	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Cerebral Tumour	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Phthisis	...	...	...	...	...	...	...	2	...	...	...	...	...	2
Heart Disease	...	...	...	...	...	...	...	...	...	2	...	...	...	2
Cancer of Pylorus	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Gastro Enteritis	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Influenza	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Senile Decay	...	...	...	...	...	...	...	...	...	...	...	2	...	2
Anæmia	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Tuberculosis of Lumbar Vertebræ	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Puerperal Convulsions	...	...	...	...	...	1	...	...	...	...	...	...	...	1
General Paralysis	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Arterio Sclerosis	...	...	...	...	...	...	...	...	...	1	...	...	...	1
	...	...	...	1	...	3	...	4	...	6	...	2	...	16
Cotton Weavers.														
Apoplexy	...	...	...	...	...	...	...	...	...	1	...	2	...	3
Dystocia	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Phosphatic Concretion of Bladder	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Cancer of Pylorus	...	...	...	...	...	...	1	...	...	1	...	...	1	1
Cancer of Liver	...	...	...	...	...	...	...	1	...	1	...	...	...	2
Cancer of Breast	...	...	...	...	...	1	...	...	...	1	...	...	...	2
Cancer of Sigmoid	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Cancer of Uterus	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Cancer of Pancreas	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Heart Disease	...	...	...	2	...	2	...	2	2	5	1	2	3	13
Cerebral Tumour	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Bronchitis	...	...	...	...	...	...	...	...	1	1	1	5	2	6

Deaths in Regard to Occupation.—(Continued).

Trades and Diseases.	5 to 15 M	5 to 15 F	15 to 25 M	15 to 25 F	25 to 35 M	25 to 35 F	35 to 45 M	35 to 45 F	45 to 65 M	45 to 65 F	65 and upwards M	65 and upwards F	Total. M	Total. F
Cotton Weavers (continued)	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Senile Decay	...	...	...	...	...	...	...	...	...	...	3	2	3	2
Myelitis	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Softening of Brain	...	...	...	...	...	...	...	...	...	1	1	...	1	1
Asthenia	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Confinement	...	...	...	1	...	...	...	1	...	...	...	...	...	2
Influenza	...	...	...	...	...	2	...	...	...	...	...	1	...	3
Arterio Sclerosis	...	...	...	...	...	...	...	...	...	1	...	1	...	2
Cerebro Spinal Sclerosis	...	...	...	...	...	...	...	...	1	...	1	...	2	...
Typhoid Fever	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Bright's Disease	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Cerebral Embolism	...	...	...	...	...	...	...	...	...	1	...	1	...	2
Uncertified	...	...	...	...	...	...	...	...	...	1	...	2	...	3
Tubercular Peritonitis	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Diarrhœa	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Miliary Tuberculosis	...	...	1	...	...	...	...	...	...	...	...	...	1	...
Phthisis	...	...	...	1	...	3	1	...	...	...	...	...	1	4
Abscess of Thigh	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Rheumatic Fever	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Exophthalmic Goitre	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Inquest	...	...	...	...	...	...	1	...	...	...	...	1	1	1
Cerebral Abscess	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Pleurisy	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Septicæmia	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Osteo-Arthritis	...	...	...	...	...	...	...	...	...	1	1	...	1	1
Meningitis	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Gangrene of Leg	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Dropsy	...	...	...	...	...	...	...	...	1	...	...	...	1	...
General Tuberculosis	...	...	1	...	...	...	...	...	...	...	...	...	1	...
Angina Pectoris	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Acute Nephritis	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Pneumonia	...	...	...	...	1	...	...	...	...	...	...	...	1	...
Embolism Pulmonary Artery	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Tuberculous Cystitis	...	...	...	...	1	...	...	...	...	...	...	...	1	...
Uncontrollable Vomiting	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Chronic Rheumatism	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	2	8	2	10	3	8	7	24	10	19	24	69
Cotton Card-room Hands.														
Nephritis	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Phthisis	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Cerebral Embolism	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Difficult Parturition	...	...	...	...	...	1	...	...	...	...	...	...	...	1
	...	...	...	...	...	2	...	...	...	1	...	1	...	4

Deaths in Regard to Occupation.—(Continued).

TRADES AND DISEASES.	5 to 15 M	5 to 15 F	15 to 25 M	15 to 25 F	25 to 35 M	25 to 35 F	35 to 45 M	35 to 45 F	45 to 65 M	45 to 65 F	65 and upwards M	65 and upwards F	Total. M	Total. F
Cotton Spinners.														
Pneumonia	...	...	...	...	1	...	1	...	...	...	1	...	3	...
Heart Disease	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Cancer of Stomach	...	...	...	...	...	...	1	...	...	...	...	...	1	...
Uncertified	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Gastro Enteritis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Suicide (drowned)	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Arterio Sclerosis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
General Paralysis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	...	...	1	...	2	...	4	...	3	...	10	...
Dock Porter.														
Apoplexy	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Drapers.														
Arterio Sclerosis	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Anæmia	...	...	...	...	...	...	...	...	...	...	1	...	1	...
	...	...	...	...	...	...	...	...	...	1	1	...	1	1
Drapers Assistant.														
Cirrhosis of Liver	...	...	...	...	...	...	1	...	...	...	...	...	1	...
Dataller (Coal Mine).														
Inquest	...	...	...	...	1	...	...	...	...	...	...	...	1	...
Druggist's Assistant.														
Heart Disease	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Engine Tenter.														
Strangled (accidently)	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Engineer's Fitter.														
Mediastinal Tumour	...	...	...	...	...	...	...	...	1	...	...	...	1	...

Deaths in Regard to Occupation.—(Continued).

TRADES AND DISEASES.	5 to 15 M	5 to 15 F	15 to 25 M	15 to 25 F	25 to 35 M	25 to 35 F	35 to 45 M	35 to 45 F	45 to 65 M	45 to 65 F	65 and upwards M	65 and upwards F	Total. M	Total. F
Fish and Fruit Salesmen.														
Diabetes	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Influenza	...	...	...	...	...	...	1	...	...	...	...	...	1	...
Inquest	...	...	...	...	1	...	...	...	...	...	...	...	1	...
	...	...	...	...	1	...	1	...	1	...	...	...	3	...
Farmers.														
Nephritis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Cancer of Stomach	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Heart Disease	...	...	...	...	...	...	...	...	...	...	2	...	2	...
	...	...	...	...	...	...	...	...	...	...	4	...	4	...
Farm Labourers.														
Uncertified	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Heart Disease	...	...	1	...	...	...	...	...	...	...	...	...	1	...
	...	...	1	...	...	...	...	...	...	...	1	...	2	...
Gardeners.														
Apoplexy	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Hæmiplegia	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Arterio Sclerosis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	...	...	...	...	...	...	1	...	2	...	3	...
General Servant.														
Senile Decay	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Grocers.														
Bright's Disease	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Influenza	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	...	...	...	...	...	...	2	...	...	...	2	...
Grocer's Assistant.														
Appendicitis	...	...	...	...	1	...	...	...	...	...	...	...	1	...

Deaths in Regard to Occupation.—(Continued).

TRADES AND DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
House Painters.														
Diabetes	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Softening of Brain	...	...	...	...	...	...	...	...	...	...	1	...	1	...
	...	...	...	...	...	...	...	...	...	...	2	...	2	...
Hairdresser's Assistant.														
Heart Disease	1	...	...	...	...	...	...	...	...	...	...	...	1	...
Haberdashery Hawker.														
Nephritis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Hauling Engineman.														
Heart Disease	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Hardware Dealer.														
Disease of Prostate	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Insurance Agents.														
Phthisis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Cancer of Tongue	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Heart Disease	...	...	...	...	...	...	...	...	...	...	1	...	1	...
	...	...	...	...	...	...	...	...	2	...	1	...	3	...
Iron Fitter.														
Bronchitis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Joiner.														
Pneumonia	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Senile Decay	...	...	...	...	...	...	...	...	...	...	2	...	2	...
Apoplexy	...	...	...	...	...	...	...	...	...	...	1	...	1	...
	...	...	...	...	...	...	...	...	...	...	4	...	4	...
Jobbing Gardeners.														
Pneumonia	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Fall (accidental)	...	...	...	...	...	...	...	...	...	...	1	...	1	...
	...	...	...	...	...	...	...	...	...	...	2	...	2	...

Deaths in Regard to Occupation.—(Continued).

TRADES AND DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Labourers (General).														
Bronchitis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Enteric Fever	...	...	1	...	...	...	...	...	...	...	...	...	1	...
Suicide (drowned)	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Enlarged Prostate	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Phthisis	...	...	...	...	...	...	...	...	3	...	...	...	3	...
Senile Decay	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Heart Disease	...	...	...	...	...	...	1	...	1	...	...	...	2	...
Asthma	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Arterio Sclerosis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Cerebral Paralysis	...	...	...	...	1	...	...	...	...	...	...	...	1	...
Injuries (fall, accidental)	...	...	...	...	...	...	1	...	...	...	...	...	1	...
	...	...	1	...	1	...	2	...	7	...	3	...	14	...
Labourer (Sanitary Pipe Works).														
Arterio Sclerosis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Licensed Victuallers.														
Arterio Sclerosis	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Cirrhosis of Liver	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Heart Disease	...	...	...	...	...	...	...	...	...	...	1	...	1	...
	...	...	...	...	...	...	...	...	1	...	2	...	3	...
Mechanical Engineer.														
Cancer of Stomach	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Master Carter.														
Senile Dementia	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Mechanic.														
Injuries (accidental)	...	...	...	...	1	...	...	...	...	...	...	...	1	...
M.R.C.S.														
Heart Disease	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Machineman (Papermill).														
Paralysis	...	...	...	...	...	...	...	...	...	...	1	...	1	...

Deaths in Regard to Occupation.—(Continued).

TRADES AND DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Paper Packer.														
Cancer of Stomach	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Paper Stamper.														
Bright's Disease	1	...	...	...	...	...	...	...	...	...	...	...	1	...
Paper Bag Maker.														
Follicular Tonsilitis	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Paper Mill Labourer.														
Diabetes	...	...	...	...	...	...	1	...	...	...	...	...	1	...
Cancer of Intestine	...	...	...	...	...	...	...	...	...	...	1	...	1	...
	...	...	...	...	...	...	1	...	...	...	1	...	2	...
Paper Makers.														
Bronchitis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Cirrhosis of Liver	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Heart Disease	...	...	...	...	...	...	...	...	1	...	1	...	2	...
	...	...	...	...	...	...	...	...	3	...	1	...	4	...
Paper Stainers.														
Infective Enteritis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Apoplexy	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	...	...	...	...	...	...	2	...	...	...	2	...
Paper Mill Block Cutter.														
Pneumonia	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Paper Mill Watchman.														
Inquest	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Paper Mill Manager.														
Hypertrophy Prostate	...	...	...	...	...	...	...	...	...	...	1	...	1	...

Deaths in Regard to Occupation.—(Continued).

TRADES AND DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Pavior.														
Phthisis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Piecer (Cotton Mill.)														
Senile Decay	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Printer.														
Arterio Sclerosis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Pick Sharpener at Coal Mine.														
Apoplexy	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Plumber														
Apoplexy	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Quarryman.														
Suicide (hanging)	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Railway Goods Checker.														
Asthma	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Railway Goods Foreman.														
Heart Disease	...	...	...	...	...	...	...	...	...	...	1	...	1	...
School Teacher.														
Heart Disease	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Influenza	...	...	...	...	...	...	...	...	...	1	...	...	...	1
	...	...	...	...	.	...	...	...	...	1	1	...	1	1
Sanitary Pipe Moulders.														
Nephritis	...	...	...	...	...	...	1	...	...	...	...	...	1	...
Tubicular Fistula in ano	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	...	...	...	...	1	...	1	...	...	...	2	...
Shopkeeper.														
Bronchitis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Size Mixer.														
Inquest	...	...	...	...	1	...	...	...	...	...	...	...	1	...
Sweet Dealer.														
Suicide (cutting throat)	...	...	...	...	...	...	...	...	1	...	...	...	1	...

Deaths in Regard to Occupation.—(Continued).

TRADES AND DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Stone Quarriers.														
Heart Disease	...	...	...	...	...	...	...	...	...	...	2	...	2	...
Apoplexy	...	...	...	...	...	...	...	...	...	...	1	...	1	...
	...	...	...	...	...	...	...	...	...	...	3	...	3	...
Stone Masons.														
Senile Decay	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Apoplexy	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Bronchitis	...	...	...	...	...	...	...	...	...	...	2	...	2	...
Phthisis	...	...	...	...	1	...	...	...	...	...	...	...	1	...
	...	...	...	...	1	...	...	...	1	...	3	...	5	...
Stoker (Motor Waggon).														
Injuries (accidental)	...	...	...	...	1	...	...	...	...	...	...	...	1	...
Sheet Metal Worker.														
Pneumonia	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Seamstress														
Apoplexy	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Tailors.														
Bronchitis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Nephritis	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	...	...	...	...	...	...	2	...	...	...	2	...
Tinplate Worker.														
Inquest	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Tram Superintendent.														
Diabetes Mellitus	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Watchmaker.														
Influenza	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Wallpaper Designer.														
Apoplexy	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Warehouseman.														
Epilepsy	...	...	1	...	...	...	...	...	...	...	...	...	1	...

OCCUPATION.

There were 274,402 spindles and 36,309 looms in the borough. As previously stated in reports, is largely cotton, but owing to the large number of men who have been called into the Army, the weaving mills are doing badly and a great many looms are stopped. This has resulted in short time in some of the mills, and a further depletion has taken place by reason of many women joining the ranks of munition workers.

HOUSE ACCOMMODATION.

The number of houses at the end of the year was 10,461, this number includes 32 for which plans have been passed. At this crisis it is plentiful, and a large number are empty ; a great many shops are empty and there does not seem any likelihood of them becoming tenanted.

HOUSING AND TOWN PLANNING ACT.

No. of Houses Inspected	No. of houses considered unfit for human habitation	No. of Representations made to Local Authority with a view to making closing orders	No. of closing orders made	No. of houses remedied without the making of closing orders	No. of houses remedied or being remedi'd after closing orders being served	Houses demolished		Demolition orders made
						Without demolition order	After demolition order	
25	9	9	0	6	0	0	0	0

The houses on the black list are being continually visited and examined, all known property is kept on the list of inspections with a view to black listing them should they be allowed to pass the border line.

The minimum of yard space is 150 sq. ft.

There are 1733 houses containing baths, and 29 new ones were put in during the year.

The streets are all paved with setts, in the principal thoroughfares granite setts are used.

The side walks in the front streets are flagged and are 7ft. 6in. wide.

THE MODEL LODGING HOUSE.

The bed accommodation is 144, including females ; the average number occupied was 78.15.

PARKS.

Of which we have three, each one of which any town might well be proud. During fine weather they are extensively patronised by both townspeople and visitors from the neighbouring towns.

The success of the Everton Street Bowling Green was such as to encourage the formation of the one at Whitehall and also on the Olive Lane site. The appearance in all cases is such as to form a great attraction to the public, and apart from the games played thereon they are invaluable as breathing spaces now retained permanently for the public good.

WATER SUPPLY.

Continues good, from a pure source, and every precaution is taken to prevent pollution.

The amount used during the year was 303,175,000 gallons ; 47,449,000 being for trade purposes, the remainder for domestic use at the rate of 18 gallons per head per day.

The total Rainfall for the year on the Watershed was 46.95 inches, and in Bold Venture Park 51.64 inches. We had rain on 220 days.

The heaviest Rainfall was in December, with 10.27 inches, and the lowest in September, with 1.00 inches.

MILK SUPPLY.

Continues of good quality, this cannot be perfect however until farming is done on a more scientific basis, and its delivery on perfect sanitary principles.

REGULATIONS.

THE COWS should be healthy, and to that end should be kept as much as possible in the open air. Farmers are advised to buy only cows about the health of which they have no doubt, and to keep cows which may happen to fall ill, isolated from other cows ; they must be kept clean and for this purpose plenty of good bedding must be provided and renewed as often as necessary.

UDDERS AND TEATS—As the source of contamination is either dirty or diseased udders, these must be cleaned with a damp cloth before milking. If the udder is soiled so that it cannot be cleaned in this way, it should be washed with warm water and soap and then carefully dried with a clean dry cloth. Many farmers object to do this, under the impression that it will curtail the supply of milk. This appears to me a mistake, as the cows lie on the ground in the open air in all states of the weather, the udder coming into close contact with the cold wet ground, which is more likely to influence the flow of milk than is the method of cleansing above suggested.

The farmers should be instructed to examine the cow's udders and teats after every milking for any unusual lump or swelling, as these are the more readily recognised after milking than before.

If anything suspicious is found or there is obvious disease of udder or teats, the milk must not be sold for human consumption until the advice of a Veterinary Surgeon has been obtained and his decision given that it is safe to so use it.

THE MILKER—The sources of contamination is in the clothes, the hands, or through the illness of the milker. To prevent danger he or she must wash his or her hands before milking using a stiff brush to cleanse underneath the nails.

Soap, towels and clean water must be provided in a convenient place for this purpose. The absence of suitable provision for this will be taken as evidence that these instructions are not being carried out. Clean linen overalls or smocks should be worn when, and only when, milking. Persons who are ill or have sickness at home should in no way have anything to do with the cows until the sanction of a medical man has been obtained that it is safe to do so.

THE COW SHED should be so lighted that every part is easily visible in the day time, when the doors are closed ; should be so ventilated that the air in it will not feel close, or have a disagreeable smell when the cows are housed and the doors are shut. Cows, like ourselves, will not suffer from free ventilation if it is steadily maintained throughout the year.

It should be kept free from dust, especially during milking.

The manure must be removed from the cowsheds as often as required, this being not less than twice a day ; the liquid manure channels must be cleansed frequently with water.

The milk must not be left standing in the Cow Shed, but immediately removed as occasion requires to a suitably clean place, strained and cooled.

UTENSILS.—All milk vessels should be so constructed that all parts can be thoroughly and easily cleaned, the lids should be close fitting and dust proof. All cloths used for cleaning milk vessels must be frequently wrung out of clean water and boiled at least once a day. These utensils should be kept for milk alone, and not used for any other purpose. An efficient seive must be provided for straining milk and must be maintained in a thoroughly clean condition ; muslin or other similar material must be used with the seive, then washed and scalded after each operation.

In summer time special precautions must be taken to prevent house flies from getting to the milk.

ALL VEHICLES used for distributing the milk must be kept as clean as possible and provided with special receptacles for the measures, &c., with a lid attached to keep out dust, &c.

The condition of milk carts, utensils, gears, horses, &c. will be taken as an indication of the state of all the other parts appertaining to the milk industry.

Yours truly,

F. G. HAWORTH,

Medical Officer of Health.

The Bye-laws in regard to the cubic area for each beast state this must be 600 c.f. ; the Model Bye-laws require 800 c.f.

Until the cows are groomed as carefully as are horses in the best stables, we shall not see our cow-sheds in that sanitary state of cleanliness necessary for the production and supply of a pure milk. The two must go together.

FOOD INSPECTION.

Is carried out by the Meat and Sanitary Inspectors in a most efficient manner.

BAKEHOUSES.

are constantly under supervision.

SLAUGHTER HOUSES.

One municipal and one private.

CLOSET ACCOMMODATION.

The following constitutes the accomodation in this respect at the end of the year in question.

Pails	1805
Water Closets	6282
Waste Water Closets	2489
Privies	2
Total	10578

Water Closets fixed in new buildings	37
Houses with two or more closets	3
Houses with one closet	29
Water closets dismantled	3
Pails converted to Water Closets	877
Waste Water converted to Water Closets	4
Baths installed during the year	29

Owing to the war the conversion of pail to water closet has not been as rapidly carried out as would have been the case under other circumstances.

REFUSE DISPOSAL.

House and shop refuse is collected by Corporation servants, the contents of the pails are now collected by contract, this arrangement having been made owing to the number of men engaged in this work being called to the army. It is satisfactorily done.

SUMMARY OF INSPECTIONS—SOUTHERN DISTRICT.

A. Number and Nature of Inspection Made.	No.	B. Number of Notices Served			C, Result of Service of Notice.		
		Legal.	Preliminary.	Nuisances Abated.	Remaining in hand.	Prosecutions.	
						Instituted.	Pending
Dwelling Houses including houses under Town Planning Act	1337	......	......	......	......	......	......
Factories and Workshops	201	5	4	5	......	......	......
Dairies and Cowsheds	105	17	14	10	7	......	......
Bakehouses	98	1	2	3	....	......	......
Infectious Diseases	133	......	......	......	......	......	......
Smoke Observations	86	2	......	......	......	1	......
NUISANCES.							
Defective Drains	38	17	35	36	2	......	......
,, Slop Gullies	56	5	54	50	6	......	......
,, Soilpipes, W.C.s etc.	9	3	9	9	....	......	......
,, Troughs and Downspouts	75	48	73	70	5	......	......
Insanitary Yards	15	2	15	12	3	......	......
Dirty Houses, etc	57	49	54	54	3	......	......
Dirty Closets	4	1	4	3	1	......	......
Accumulation of Refuse	26	14	26	24	2	......	......
Nuisance from Animals	2	1	2	2	......	......	......
Insanitary Ashpits	2	2	......	2	......	......	......
Ashtubs without Covers	28	2	28	17	11	......	......
Broken Sloppipes	41	8	37	36	5	......	......
Choked Waste Water Cls.	12	4	11	12	......	......	......
Insufficient Closet Accom.	2	2	......	2	......	......	......
Overcrowding	6	5	6	6	......	......	......
Dirty Bedding, etc	4	2	4	3	1	......	......
Convert Pail Closets	450	450	......	408	42	......	......
Miscellaneous	10	3	9	7	3	......	......

WILLIAM E. MARSDEN, Inspector.

Cellar Dwellings and back to back houses are being done away with as occasion arises.

SUMMARY OF INSPECTIONS—NORTHERN DISTRICT.

A. Number and Nature of Inspection Made.	No.	B. Number of Notices Served			C. Result of Service of Notice.		
					Remaining in hand.	Prosecutions.	
		Legal.	Preliminary.	Nuisances Abated.		Instituted.	Pending
Dwelling Houses including houses under Town Planning Act	2485	......	......	......	......	......	......
Factories and Workshops	161	8	....	7	1	......	......
Dairies and Cowsheds	60	9	2	11	7	......	......
Bakehouses	102	4	......	4	......	......	......
Infectious Diseases (visits)	151	......	......	......	......	......	......
Rooms Disinfected	136	......	......	......	......	......	......
Loads of Bedding Disinfected	97	.....	......	......	......	......	......
Smoke Observations	88	3	......	3	......	1†	......
NUISANCES.							
Defective Drains	50	25	50	48	2	......	......
,, Slop Gullies	22	4	12	19	3	......	......
,, Soilpipes, W.C.s etc.	22	10	22	20	2	......	......
,, Troughs and Downspouts	118	40	118	108	10	......	......
Insanitary Yards	9	5	9	7	2	......	......
Dirty Houses, etc	32	20	32	28	4	......	......
Dirty Closets	18	.....	18	17	1	......	......
Accumulation of Refuse	36	6	36	30	6	......	......
Nuisance from Animals	1	......	1	1	......	......	......
Insanitary Ashpits	2	2	2	......	2	......	......
Ashtubs without Covers	12	......	12	8	4	......	......
Broken Sloppipes	23	10	15	19	4	......	......
Choked Waste Water Cls.	45	5	40	45	......	......	......
Broken Closet rec. Doors	10	......	10	8	2	......	......
Insufficient Vent. of rooms	11	11	9	11	......	......	......
Insufficient Closet Accom.	8	8	......	8	......	......	......
Overcrowding	1	1	......	1	......	......	......
Insanitary Pail Closets	147	174	......	465	144	......	......
Dirty Bedding, etc	1	1	......	1	......	......	......
Choked Sewers and Drains	21	......	21	21	......	......	......
Leaky Water Pipes	4	.....	4	4	......	......	......

† **Order to abate made by Magistrates.**

C. R. WALSH, M.R.S. Inst., Inspector of Nuisances.

OFFENSIVE TRADES.

Of which we are remarkably free in Darwen, consist of Gut scraping on a small scale, and the Town's triperies are both as sanitary as possible.

RIVER POLLUTION.

From time to time I have mentioned the need of covering in the river to prevent the escape of noxious gases and steam. The sooner this can be done and the better Occasionally I hear complaints of a nuisance arising therefrom.

BYE LAWS IN REGARD TO PREMISES AND OCCUPATION.

Lodging-Houses.—The Municipal Model Lodging House is the only common lodging house in the town, and is frequently visited and inspected by Inspector Walsh.

The average daily number of lodgers for the year was 78.15 including women, as compared with 111.3 for the previous year.

The average attendance is much lower than in the previous year.

Notification of Infectious Diseases.

The following were reported to me during the year :—

Small Pox	0
Diphtheria	16
Erysipelas	18
Scarlet Fever	158
Typhoid Fever	6
Opthalmia Neonatorum	7
Puerperal Fever	2
Tuberculosis	84
Cerebro-spinal Meningitis	1
Total	292

CASES REPORTED IN--

Year.	Diphtheria and Croup	Erysipelas	Scarlet Fever	Tpyhoid Fever	Continued Fever	Puerperal Fever	Smallpox	Chicken-pox	Tuberculosis	Ophthalmia Neonatorum	Cærebro Spn Meningitis	Total.
1887 (from Aug.)	...	...	145	14	...	...	1	...	...	...	...	160
1888	...	...	225	39	...	...	19	...	...	...	...	283
1889	...	...	158	20	...	...	2	...	...	...	...	180
1890	3	...	78	26	...	...	...	...	...	...	...	107
1891	1	...	39	50	...	...	...	...	...	...	...	90
1892	...	...	257	53	...	...	1	...	...	...	...	311
1893	5	5	242	29	...	...	6	...	...	...	...	287
1894	7	5	126	40	1	2	5	...	...	...	...	186
1895	11	27	46	36	2	8	...	...	...	...	...	130
1896	12	70	139	33	3	9	...	...	...	...	...	266
1897	5	56	101	41	1	12	...	...	...	...	...	216
1898	8	35	93	43	3	10	...	...	...	...	...	192
1899	12	31	400	55	...	7	...	...	...	...	...	505
1900	190	27	276	33	1	4	...	...	...	...	...	531
1901	207	34	231	21	3	1	...	...	...	...	...	497
1902	144	15	137	34	1	3	3	...	...	...	...	337
1903	21	17	30	15	...	2	27	32	...	...	...	144
1904	34	35	689	20	...	5	2	...	...	...	...	785
1905	29	49	456	28	...	5	...	...	...	...	...	567
1906	18	17	50	17	...	4	...	...	...	...	...	106
1907	22	14	26	21	...	...	1	...	...	...	...	84
1908	14	14	22	23	...	4	—	...	...	...	...	77
1909	11	7	149	15	...	3	...	...	11	...	...	196
1910	18	32	123	12	...	4	...	...	5	...	...	194
1911	32	16	39	9	...	2	...	...	3	...	...	101
1912	19	31	9	3	...	2	...	...	53	...	...	117
1913	26	15	28	2	...	1	...	...	91	...	...	163
1914	20	27	206	10	...	1	...	...	88	4	...	356
1915	16	18	158	6	...	2	...	...	84	7	1	292

DIPHTHERIA AND CROUP.—Of these diseases 16 cases were notified, as compared with 20 the year before ; in 12 of these swabs were taken and sent to Manchester University for examination.

In each case the reaction was negative.

Case No. 110. The patient had been visiting a friend in Blackburn.

This disease is treated in the homes of the patients, but isolated as well as circumstances will allow, as we have no hospital to which to remove them.

Number of houses in which there was one case	11
,, ,, ,, were 2 cases............	1
,, ,, ,, ,, 3 cases............	1
Total	16

SCARLET FEVER.

Number of houses with one case	114
,, ,, two cases	32
,, ,, three cases	4

No. 6. This patient was desquamating when the doctor was called in, two more cases followed.

No. 10. A brother had been discharged a month before from the Fever Hospital. This could not be called a "return case," probably the returned patient hunted out some articles of use of clothing which had become infected.

Nos. 76, 101, 117. No. 76 had been in the Hospital and was discharged before the others commenced.

Nos. 105, 106, 107 had been away from home, at Galgate, and had probably become infected there.

No. 115 had been in contact with a previous case within the incubative period.

Nos. 116, 151, 152. No. 116 had been in hospital under the same conditions as No. 10.

The distribution was as follows :

	Central.	West-Central.	North-East	North-West.	South-East	South-West.
Population	6264	3808	8703	7290	6610	6107
Number	6	7	48	35	31	31

Table showing susceptible period :—

Under 1 yr.	1 to 5	5 to 15.	15 to 25.	25 to 65.	Total
1	28	116	8	5	158

TYPHOID FEVER. There were 6 cases notified during the year, as compared with 10 cases in the previous twelve months.

In four cases there was evidence of Mussels and Cockles being eaten.

OPHTHALMIA NEONATORUM. Seven cases were notified.

PUERPERAL FEVER. Two cases were notified as compared with one the previous year.

Since the County Council was established, this disease comes under the supervision of the officials of that Authority. More care is taken in the disinfection of the Nurses' clothing, &c., which probably accounts for the decreasing number of such cases.

ERYSIPELAS. There were 18 cases, as compared with 27 in the previous year.

SMALL POX. None.

CEREBRO-SPINAL MENINGITIS. The patient had called to see a soldier relative here on furlough from Southport a few days before being taken ill.

TUBERCULOSIS. Under the regulations, 84 cases were notified as compared with 88 in the previous year. The following Table gives detailed particulars of them.

Table Showing the Age Periods and Localisation of Tuberculosis Cases notified during 1915.

DISEASES.	Under 1 yr		2 to 5		5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Lungs	...	...	...	...	3	1	6	5	8	5	10	6	15	5	...	2	42	24
Lungs—Right	...	...	...	...	...	...	1	...	1	1	...	1	...	...	...	...	2	2
Lung—Left	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Cervical Glands	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	2
Superclavicular Glands and Anterin of Neck	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Spine	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Hip Joint	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	3	...
Ischio Rectal Fossa	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Ileum	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...
Bones—Foot and Ankle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Meninges	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
Pleura	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Peritoneum and Larynx	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...
	...	...	...	...	6	2	8	7	11	9	10	7	15	6	...	3	50	34
					8		15		20		17		21		3		84	

Consumption of the Lungs is still the prevailing part affected out of a total of 84, 66 were of the Lungs.

Thirty-two deaths took place from tuberculosis of one kind or another, being 10 less than in the year before.

Pulmonary Tuberculosis headed the list with 22. Glands 1, Intestines 1, Meninges 1, Peritoneum 2, Generalised 1, Lumbar Vertebræ 1, Tarsus 1, Cystitis 1, Fistula-in-Anus 1,

Twenty-nine cases of Pulmonary Tuberculosis were sent to various sanatoria. Seventeen of these were discharged before the end of the year, with the following results.

In 2 cases—No report
,, 6 ,, Improvement.
,, 1 ,, Worse
,, 7 ,, No improvement.
,, 1 ,, Little or no active disease.
,, 3 ,, Fit for full work.
,, 5 ,, Not fit for work.
,, 7 ,, Fit for light work.

The Consumptive patients from Darwen were sent to the following institutions :

Elswick Sanatorium, Elswick
Eastby Sanatorium.
Meathop Sanatorium, Grange.
Woodburn Sanatorium.
Ainsworth Sanatorium.
Felix House Sanatorium.
Blencathra Sanatorium.
Lancaster Sanatorium.
Bull Hill Sanatorium, Darwen.
Shelf Sanatorium, Halifax.

During the year, 64 patients were sent by the County Committee to Bull Hill Sanatorium.

Table showing the Age Period and Localisation of Tuberculous cases which died during 1915.

DISEASES.	Under 1 yr		2 to 5		5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Lungs	...	...	...	...	1	1	2	1	2	4	1	3	5	1	...	1	11	11
Peritoneum	..	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	2
Intestines	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Mesenteric Glands	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Meninges	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
Lumbar Vertebræ	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Tarsus	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Generalised	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...
Cystitis	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...
Fistula in-Auo	...	...	..	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	...	...	1	2	1	2	3	3	3	4	1	3	6	1	...	2	15	17
			3		3		6		7		4		7		2		32	

	Cases. Notified.	Deaths Registered.	Death-rate of those attacked.
Scarlet Fever	158	2	1.27
Diphtheria and Membraneous Croup	16	4	25.0
Typhoid Fever	6	3	50.0
Puerperal Fever	2	0	0.0
Erypsipelas	18	0	0.0
Small Pox	0	0	0.0
Tuberculosis	84	32	38.1
Ophthalmia Neonatorum	7	1	14.0
Cerebro- Spinal Meningitis	1	1	100.0
Total	292	43	

Table showing the number of Pathological Specimens which have been sent for examination to Professor Delépine, Public Health Laboratory, Victoria University, Manchester.

YEAR.	Diphtheria.				Typhoid Fever.			Tuberculosis Sputum			Cerebro-Spinal Fever.				
											Spinal fluid		Swabs.		
	Positive.	Negative.	Doubtful.	Total	Positive.	Negative.	Total	Positive.	Negative.	Total	Positive.	Total	Positive.	Negative.	Total
1910	1	6	...	7	4	3	7	3	8	11	...	...	...	...	...
1911	6	8	...	14	4	7	11	2	9	11	...	...	...	...	...
1912	7	4	...	11	...	...	...	7	11	18	...	...	...	...	...
1913	8	8	...	16	1	7	8	28	33	61	...	...	...	...	...
1914	4	9	1	14	6	2	8	65	57	122	...	...	...	...	...
1915	...	12	...	12	2	4	6	58	60	118	1	1	...	2	2

ZYMOTIC DEATH RATE.

1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898			
0.7	3.3	3.0	1.9	2.0	1.2	1.7	1.9	2.2	1.1	2.1	2.2	1.6	2.08			
1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
2.34	2.90	2.14	1.03	0.76	2.07	1.00	1.14	0.69	0.76	1.10	0.51	1.51	0.86	0.27	0.44	1.42

NOTIFICATION OF INFECTIOUS DISEASES IN EACH WARD, AND FOR EACH MONTH OF THE YEAR 1915.

MONTHS.	CENTRAL						WEST CENTRAL						NORTH-EAST						NORTH-WEST						SOUTH-EAST							SOUTH-WEST						BOROUGH								Total.
	Scarlet Fever.	Typhoid Fever.	Erysipelas.	Diphtheria.	Puerperal Fever.	Consumption.	Scarlet Fever.	Typhoid Fever.	Erysipelas.	Diphtheria.	Cer. Spnl Meningitis	Consumption.	Scarlet Fever.	Typhoid Fever.	Erysipelas.	Diphtheria.	Op. Neonatorum.	Consumption.	Scarlet Fever.	Typhoid Fever.	Erysipelas.	Diphtheria.	Op. Neonatorum	Consumption.	Scarlet Fever.	Typhoid Fever.	Erysipelas.	Diphtheria.	Puerperal Fever.	Op. Neonatorum	Consumption.	Scarlet Fever.	Typhoid Fever.	Erysipelas.	Diphtheria.	Op. Neonatorum.	Consumption.	Scarlet Fever.	Typhoid Fever.	Erysipelas.	Diphtheria.	Puerperal Fever.	Consumption.	Op. Neonatorum.	Cer. Synl Meningitis	
JANUARY ...	1	...	3	1	...	1	1	...	...	...	...	...	4	...	2	...	1	4	2	...	...	...	...	1	1	...	...	...	...	...	2	2	...	1	...	...	2	11	...	6	1	...	10	1	...	29
FEBRUARY .	1	...	...	...	...	2	...	...	1	...	...	...	6	...	1	...	1	...	6	...	...	1	...	2	8	...	...	...	...	1	2	1	...	1	...	...	...	22	...	3	1	...	6	2	...	34
MARCH	...	...	...	1	...	1	3	...	...	...	...	2	4	1	...	...	...	1	1	1	...	...	...	2	8	...	...	...	...	...	...	8	...	...	...	...	1	24	2	...	1	...	7	...	...	34
APRIL	...	...	...	...	...	...	...	...	...	...	1	1	3	...	...	...	...	...	...	...	...	...	...	1	4	...	1	...	...	1	...	5	...	...	...	1	2	12	...	1	...	...	4	2	1	20
MAY	3	...	1	...	1	2	1	...	...	...	...	2	3	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	9	...	1	...	2	4	...	...	16
JUNE	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2	2	...	...	...	...	3	...	...	...	...	...	...	3	2	...	...	...	...	2	4	...	...	...	...	12	...	...	16
JULY	...	...	...	...	...	1	2	...	...	...	...	1	4	...	...	1	...	...	...	...	...	...	...	2	...	...	...	1	...	...	1	1	...	...	...	...	4	7	...	...	2	...	9	...	...	18
AUGUST	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	2	1	...	...	...	...	2	...	...	...	...	...	1	1	1	...	1	...	...	2	5	...	1	...	...	7	1	...	14
SEPTEMBER	...	...	...	...	...	2	...	...	1	...	...	...	6	...	...	...	...	4	5	...	...	...	...	...	1	...	...	...	...	...	...	1	...	1	...	...	1	13	...	2	...	...	7	...	...	22
OCTOBER ...	...	...	...	...	...	...	...	1	...	...	...	1	6	...	...	...	...	1	9	...	1	...	...	...	3	...	...	...	...	...	...	5	...	...	1	...	2	23	1	1	1	...	4	...	...	30
NOVEMBER...	1	...	...	...	...	3	...	...	...	...	...	1	3	...	...	1	...	2	3	...	...	...	...	1	3	1	1	...	...	...	...	4	1	...	2	...	2	14	2	1	3	...	9	...	...	29
DECEMBER	...	...	...	...	...	...	...	...	...	1	...	3	6	...	1	...	...	1	4	...	...	...	1	1	3	...	...	1	...	...	...	1	1	1	5	...	...	14	1	2	7	...	5	1	...	30
TOTALS...	6	...	4	2	1	14	7	1	2	1	1	11	48	1	4	2	2	17	35	1	1	1	1	15	31	1	2	2	1	3	9	31	2	5	8	1	18	158	6	18	16	2	84	7	1	292

Deaths.

The total number of deaths during the year was 590 ; males 280 ; females 310 ; being a decrease of 5 on the previous year.

The Death-rate for the year is 15.21, or an increase of 0.72 on the previous year.

The number of deaths of residents in Institutions outside the district was 71 which has been added to the 519 deaths registered within the district, making a total of 590.

These deaths are reported to me quarterly by the Registrar General, through the County Medical Officer of Health.

The number of deaths in the Union Workhouse, Blackburn was..................	30
,, ,, ,, ,, Royal Infirmary, Blackburn........................	24
,, ,, ,, ,, other Institutions and places........................	17

Eight deaths of non-residents occurred in the town during the year three of these were soldiers.

INQUESTS.—There were 38 Inquests held during the year compared with 30 during 1914. The following were the verdicts :—

	1910	1911	1912	1913	1914	1915
Accidental Death	18	9	18	17	14	22
Natural Causes	19	7	6	24	8	7
Suicide	5	11	4	4	8	9
	42	27	28	45	30	38

Death-rates per 1,000 of the Population in the various Wards of the Borough.

WARDS. Population.	Central. 6264	West-Central. 3808	North-East 8703	North-West 7290	South-East 6610	South-West 6107	Death-Rate per month.
1915							
January	13.42	15.77	15.16	3.29	10.89	15.72	12.07
February	21.07	18.90	12.41	16.46	3.63	13.75	13.92
March	15.24	9.45	20.68	19.89	9.08	19.65	16.09
April	17.24	18.90	11.03	24.96	10.89	19.65	17.02
May	13.42	6.30	15.16	8.23	14.52	19.65	13.30
June	17.24	18.90	6.89	11.52	7.26	9.82	11.39
July	19.15	6.30	13.79	18.11	16.34	19.65	15.78
August	7.66	15.77	8.27	14.81	7.26	7.86	9.90
September	13.42	12 .60	9.65	11.52	14.52	5.89	11.39
October	21.07	3.04	12.41	4.94	5.44	9.82	9.90
November......	11.41	25.21	11.03	16.46	21.78	17.68	16.09
December	15.24	12.60	15.16	11.52	16.34	13.75	14.23
Transfers ...	24.90	21.06	30.33	11.52	18.15	17.68	21.04
Rate for year..	17.56	15.49	15.17	14.54	13.01	15.72	15.21

Death-Rates in the Various Wards for the past 23 Years.

Year.	C.	W.C.	N.E.	N.W.	S.E.	S.W.	Borough.
1893	18.2	15.4	16.0	21.0	19.9	22.2	19.0
1894	14.66	15.22	15.54	13.04	16.96	14.63	15.0
1895	17.0	17.39	20.6	12.33	17.65	19.82	17.7
1896	12.8	17.8	16.4	17.5	19.8	19.2	17.1
1897	17.52	15.22	18.16	16.14	18.37	18.64	17.3
1898	16.09	18.58	17.82	14.99	15.51	18.0	16.8
1899	18.45	15.80	15.38	12.50	20.85	18.05	17.0
1900	20.78	17.28	21.40	21.09	20.03	20.50	20.4
1901	17.92	17.36	14.21	17.05	18.46	13.83	20.8
1902	13 13	15.78	14.13	13.60	14.11	17.34	14.6
1903	14.13	13.95	11.67	12.97	11.85	13.17	12.8
1904	14.12	15.21	14.52	20.50	14.54	14.54	15.2
1905	13.30	14.15	13.24	16.67	15.41	12.84	14.0
1906	11.40	12.83	14.66	11.68	12.52	14.64	13.11
1907	12.79	12.55	12.27	15.69	10.86	12.07	12.58
1908	11.77	13.28	13.46	15.31	11.32	13.39	13.01
1909	12.58	18.16	11 22	17.74	15.26	15.47	14.44
1910	15 02	16.18	11.67	14.37	11.51	13.24	13.33
1911	17.93	18.23	16.32	13.23	12.47	18.13	15.87
1912	14.09	15.92	12.83	12.99	13.99	14.69	13.86
1913	12.33	15.12	14.22	14.76	14.79	14.14	14.18
1914	13.73	10.31	16.15	13.19	15.12	16.37	14.49
1915	17.56	15.49	15.17	14.54	13.01	15.72	15.21
Average	15.10	15.53	15.09	15.34	15.40	16.11	15.55

Population as per Census enumerated	Estimated Population to middle of year	Births	Deaths from all causes.	Deaths under 1 year.	Deaths 1 to 5	Deaths 5 to 15	Deaths 15 to 25	Deaths 25 to 60	Deaths 60 years and upwards.
	1886 32,185	965	641	187	154	28	29	135	108
	1887 32,491	1000	716	188	139	60	35	174	120
1881	1888 33,500	994	600	154	113	32	33	145	118
29,747	1889 34,500	972	544	149	90	16	31	161	107
	1890 36,500	1075	673	184	68	28	30	196	167
	1891 34,192	1115	660	168	115	32	26	193	126
	1892 35,000	1057	641	177	85	35	64	175	105
	1893 35,500	955	677	184	101	40	44	167	141
	1894 36,000	1039	542	130	67	17	46	174	108
1891	1895 36,000	1128	640	179	92	16	43	186	124
34,192	1896 36,652	1032	627	187	102	17	26	163	132
	1897 37,500	1114	651	182	87	19	33	195	135
	1898 37,500	1131	632	199	79	22	27	174	131
	1899 37,900	1062	647	200	90	23	26	189	119
	1900 38,600	980	789	188	144	45	33	196	183
1901	1901 38,212	858	620	145	100	33	20	166	156
38,212	1902 38,712	891	569	135	58	32	27	174	143
	1903 39,114	941	501	117	51	17	18	151	147
	1904 39,516	820	606	123	110	35	29	160	149
	1905 39,918	818	562	118	61	31	30	25 to 65 216	65 and upwards. 106
	1906 41,164	811	540	111	65	19	18	202	125
	1907 41,864	876	527	104	49	21	26	217	110
	1908 42,266	895	550	107	33	20	19	240	131
	1909 42,668	816	616	104	63	28	31	250	140
1911	1910 43,000	776	573	95	36	25	35	229	153
40,332	1911 40,389	756	641	116	74	20	24	246	161
	1912 40,611	691	563	88	40	25	24	247	139
	1913 40,824	738	579	94	38	23	20	251	153
	1914 41,038	765	595	91	31	23	24	250	176
	1915 38,782	666	590	75	60	22	22	234	177

Bronchitis.

Deaths at the different age periods during the last twenty-three years.

Year.	Under 1 year.	1 to 5.	5 to 15.	15 to 25	25 to 60	60 and upwards.	Total.
1893	41	24	3	...	12	29	109
1894	27	20	...	...	7	17	71
1895	24	13	...	...	21	26	84
1896	36	28	...	...	10	20	94
1897	25	13	...	...	22	26	86
1898	22	12	...	...	10	21	65
1899	29	12	...	...	16	16	73
1900	18	7	...	...	20	36	81
1901	16	10	...	...	11	30	67
1902	19	8	1	...	7	22	57
1903	17	8	...	...	4	20	49
1904	8	10	...	...	11	19	48
					25 to 65	65 and upwards.	
1905	15	5	...	...	12	19	51
1906	16	5	...	...	11	23	55
1907	16	9	...	1	10	12	48
1908	8	7	...	...	9	18	42
1909	22	8	...	...	25	26	81
1910	7	3	...	...	16	23	49
1911	6	7	1	...	12	18	44
1912	11	6	...	...	13	20	50
1913	17	3	2	1	11	17	51
1914	14	3	...	...	20	37	74
1915	6	3	...	...	15	22	46
Total ...	420	224	7	2	305	517	1475

Pneumonia.

Deaths at the different age periods during the last twenty-three years.

Year.	Under 1 year.	1 to 5.	5 to 15.	15 to 25	25 to 60	60 and upwards.	Total.
1893	8	8	1	1	24	8	50
1894	5	4	1	...	19	4	33
1895	9	4	1	1	15	4	34
1896	9	9	2	...	17	3	40
1897	14	12	2	2	31	10	71
1898	11	13	3	...	18	8	53
1899	12	14	2	...	21	8	57
1900	20	28	3	1	25	11	88
1901	19	14	1	...	15	11	60
1902	16	12	2	2	28	4	64
1903	8	8	1	...	18	6	41
1904	13	19	1	...	15	5	53
					25 to 65	65 and upwards.	
1905	12	12	6	...	13	4	47

Pneumonia.—Continued.

YEAR.	Under 1 year.	1 to 5.	5 to 15.	15 to 25	25 to 65	65 and upwards.	Total.
1906............	11	19	5	5	20	6	66
1907............	18	16	3	2	17	6	62
1908............	4	4	...	2	12	1	23
1909............	12	10	6	2	14	3	47
1910............	10	12	2	2	19	6	51
1911............	8	10	1	4	17	8	48
1912............	9	11	2	2	14	6	44
1913............	3	9	2	1	16	5	36
1914............	7	3	4	...	24	5	43
1915............	12	9	...	1	5	8	35
Total ...	250	260	51	28	417	140	1146

Phthisis.

Deaths at the different age periods during the last twenty-three years.

YEAR.	Under 1 year.	1 to 5.	5 to 15.	15 to 25	25 to 60	60 and upwards.	Total.	Rate.
1893......	...	...	...	...	35	4	39	1.10
1894......	...	1	1	1	42	...	45	1.25
1895......	...	...	...	...	34	4	38	1.06
1896......	1	1	...	...	25	2	29	0.79
1897......	...	...	...	...	26	1	27	0.72
1898......	...	...	...	...	26	2	28	0.75
1899......	...	...	1	2	26	2	31	0.82
1900......	1	...	1	1	25	2	30	0.78
1901......	...	...	1	2	23	3	29	0.76
1902......	...	2	...	...	27	2	31	0.80
1903......	...	...	1	1	18	2	22	0.56
1904......	1	3	3	...	28	3	38	0.96
					25 to 65	65 and upwards.		
1905......	...	1	...	8	24	3	36	0.90
1906......	...	...	1	2	16	...	19	0.46
1907......	...	1	1	5	28	...	35	0.84
1908......	...	...	3	3	19	...	25	0.59
1909......	...	...	2	7	26	...	35	0.82
1910......	...	...	...	6	16	2	24	0.56
1911......	...	1	...	7	26	...	34	0.84
1912......	...	...	3	3	23	...	29	0.71
1913......	...	...	1	5	26	...	32	0.78
1914......	...	...	1	9	19	...	29	0.70
1915......	...	...	2	3	16	1	22	0.57
Total	3	10	22	65	574	33	707	

DEATHS OF PERSONS 65 YEARS AND UPWARDS.

Senile Decay	27
Bronchitis and Pneumonia	30
Hearth Disease	23
Apoplexy	18
Injuries	3
Phthisis	1
All other causes	75
	177

DEATHS FROM CONSUMPTION.

Tubercular Meningitis	1
Tubercular Peritonitis	2
Phthisis Pulmonalis	22
Tubercular Mesenteric Glands	1
Tubercular Cystitis	1
Tuberculosis Generalised	1
,, of Intestines	1
,, Lumbar Vertebræ	1
,, Tarsus	1
Tubercular Fistula-in-ano	1
	32

DISINFECTION.

During the year infected bedding was removed from 189 houses for disinfection, and 266 rooms were fumigated.

LIST OF BEDDING DISINFECTED DURING 1915.

Beds.	Mattresses.	Bolsters.	Pillows.	Quilts.	Blankets.	Sheets.	Suits of Clothes.	Carpets.	Rugs.	Curtains.	Cushions.	Shawls.	Sundries.
216	63	182	227	187	265	65	3	11	10	0	9	18	277

INFANTILE MORTALITY.

The number of Infants who died during the year was 75, making an Infantile Mortality Rate of 112.

It is still keeping fairly low, but certainly not as low as one would wish. The rate was 112 per 1000 births and lower than it has ever been during the last thirty years.

The causes of death were as follows : 1 from suffocation through being overlaid ; 1 from injury at birth ; 1 from congenital malformation ; 12 from premature birth, 6 from Marasmus, all of which died during the first week of life. At later periods of the first year deaths took place from the following causes : 4 from Measles, 6 from Whooping Cough, 1 from Diphtheria, 1 from Meningitis, 3 from Convulsions, 6 from Bronchitis, 12 from Pneumonia, 7 from Enteritis, and others from other causes, 2 more from Premature Birth. It is certainly in the direction of preventing deaths from this last cause that the efforts of a Health Visitor will be directed.

It is my intention when this visitor has commenced her duties, and on the reopening of the next session of the Child Welfare Centre, to invite the attendance of all the Mid-wives in the town, to explain the nature of the work being undertaken, and to ask their hearty co-operation in all that we are doing ; by this means we shall be able to get in touch with the pregnant mothers and to begin the ante-natal work so much recommended by the Local Government Board, all women who have had children prematurely born in previous years will be advised as to the best course by which to prevent a further repetition of this.

Total number of deaths 75, of which 2 were illegitimate, out of 20 illegitimate births during the year.

I have received the following Report from Miss Mycock, Health Visitor :—

School Clinic,
Bolton Road,
March, 1916.

Sir,

During the year 1915 I paid 432 first visits after births have been notified, and 576 second visits, allowing five working days per week for this class of work, which means an average of 165 first visits per day, and the average number of second visits was 2.21 per day, exclusive of the school inspections and time spent at the clinic.

	Method of Feeding.	
	1915	1914
Breast	262	304
Bottle	133	105
Breast and Bottle	21	...
	416	409

	1915		1914
Bottles without tubes	85	......	65
Glass Tubes	21	......	11
Rubber Tube	27	......	29
	133	......	105

FOODS.	1915		1914
Milk and Water	99	......	95
Milk and Barley	18	......	1
Undiluted milk	8	......	1
Nestles	11	......	1
Prepared foods	16	......	7
	152		105

The very great advantage of forming an Ante-Natal Clinic is shown in the above figures, it is evident we are not making any progress in the breast feedings of infants, and a class for Mothers at the stage of Pregnancy where the question of feeding could be carefully explained to them and perhaps some influence used in directing their energies in this direction would be of incalculable benefit.

The great variety of patent foods which are being used for the feeding of infants is to some extent a reflection on the mothers of to-day ; it would be better if the same persistency were exercised in the direction of breast feeding as in these and perhaps with better results, at any rate, much needs yet to be done.

The Mother's Club holds its meetings once a fortnight in the Lecture Hall of the Carnegie Free Library, the session lasting from September to the end of May. The attendance continues good, the average number present being from 40 to 50. Lectures are given on infant Feeding, Hygiene, Cooking, and the cutting out and making of baby garments ; short talks are given on the washing and dressing of baby.

I am, Sir,
Yours obediently,
E. MYCOCK.

I expressed the opinion in my last Report that two weeks is too long a period between these meetings, and a greater interest would probably be taken if the meetings were held weekly at present these take place on the Saturday afternoons and are looked forward to and much appreciated by all present.

The vacation is, and has been since the commencement, of three months' duration this might with advantage be reduced to one month.

GOVERNMENT TABLE IV.

NAME OF DISTRICT—DARWEN.

INFANT MORTALITY DURING THE YEAR 1915.

Nett Deaths from stated Causes at various Ages under 1 Year of Age.

CAUSE OF DEATH.	Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 1 month	1-3 months	3-6 months	6-9 months	9-12 months	Total deaths under 1 year
ALL CAUSES—										
Certified	22	3	...	1	26	10	11	16	11	74
Uncertified	1	...	...	...	1	...	...	...	...	1
Small-pox	...	...	...	...	...	...	...	...	...	...
Chicken-pox	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	...	...	2	2	4
Scarlet Fever	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	...	...	...	...	1	1	...	4	6
Diphtheria and Croup	...	...	...	...	...	...	...	...	1	1
Erysipelas	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...
Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	...
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...
Meningitis (not Tuberculous)	...	...	...	...	...	...	...	1	...	1
Convulsions	...	...	...	...	...	1	2	...	...	3
Laryngitis	...	...	...	...	...	...	...	...	...	...
Bronchitis	...	...	...	...	...	...	2	3	1	6
Pneumonia (all forms)	...	...	...	...	...	3	3	5	1	12
Diarrhœa	...	...	...	...	...	...	...	...	...	...
Enteritis	...	...	...	...	...	1	...	5	1	7
Gastritis	...	...	...	...	...	...	...	...	...	...
Syphilis	...	...	...	...	...	...	...	...	...	...
Rickets	...	...	...	...	...	...	...	...	...	...
Suffocation, overlying	1	...	...	...	1	...	...	...	...	1
Injury at Birth	1	...	...	...	1	...	1	...	...	2
Atelectasis	...	...	...	...	...	...	...	...	...	...
Congenital Malformations	1	...	...	...	1	...	...	...	...	1
Premature Birth	12	2	...	...	14	...	...	...	...	14
Atrophy, Debility and Marasmus	6	1	...	1	8	2	1	...	...	11
Other Causes	2	...	...	...	2	2	1	...	1	6
TOTALS	23	3	...	1	27	10	11	16	11	75

Nett Births in the Year.		Nett Deaths in the Year of—	
Legitimate	646	Legitimate Infants	73
Illegitimate	20	Illegitimate Infants	2

DEATHS UNDER ONE YEAR OF AGE.

Year.	Premature Birth.	Convulsions.	Bronchitis & Pneumonia.	Diarrhoeal Diseases.	Whooping Cough.	Measles.	Inanition.	Congenital Defects.	Other Causes.	Total.	Rate per 1,000 Births.
1887	19	42	31	16	8	2	13	...	57	188	188
1888	...	...	...	...	...	...	...	...	...	154	155
1889	27	28	24	14	11	2	17	...	26	149	153
1890	...	...	...	...	...	...	...	...	...	184	171
1891	20	39	33	8	...	10	12	...	46	168	151
1892	15	36	37	5	11	...	13	...	60	177	167
1893	24	22	49	16	2	9	12	...	50	184	193
1894	21	17	30	6	10	...	8	...	38	130	125
1895	16	17	33	41	3	13	27	6	36	179	158
1896	25	14	44	35	15	3	18	6	30	187	181
1897	27	11	39	35	4	13	22	8	36	182	163
1898	33	6	33	58	...	11	12	9	48	199	175
1899	22	18	41	43	7	1	9	12	48	200	188
1900	36	16	38	27	4	9	18	5	44	188	191
1901	20	8	35	24	6	3	15	7	30	145	169
1902	23	6	35	16	6	1	7	7	35	135	151
1903	21	2	25	16	7	2	17	4	5	117	124
1904	15	2	21	29	13	8	13	5	25	123	150
1905	31	5	27	11	...	1	17	3	24	118	144
1906	18	5	27	19	...	4	9	3	30	111	136
1907	18	9	34	11	4	...	7	4	17	104	118
1908	27	3	12	26	1	...	10	4	24	107	120
1909	21	1	34	10	8	7	6	5	12	104	127
1910	19	11	17	12	3	...	5	3	25	95	122
1911	22	2	14	23	...	9	18	1	27	116	153
1912	13	4	20	6	10	3	9	4	19	88	127
1913	17	1	20	12	1	2	18	6	17	94	127
1914	16	6	21	10	2	...	14	5	17	91	119
1915	14	3	18	7	6	4	5	1	17	75	112

TABLE showing Infantile Mortality in the Various Wards.

Year.	C.	W.C.	N.E.	N.W.	S.E.	S.W.	Boro.'
1898	195	193	219	125	122	164	175
1899	215	147	189	154	212	161	188
1900	225	183	238	170	158	163	191
1901	182	169	160	208	157	162	169
1902	138	135	146	121	174	174	151
1903	156	157	117	160	94	91	124
1904	152	96	126	172	194	152	150
1905	171	144	153	107	138	139	144
1906	117	179	160	62	158	140	136
1907	153	156	158	82	35	122	118
1908	102	131	133	105	103	140	120

Table showing Infantile Mortality in the Various Wards.—Continued.

Year.	C.	W.C.	N.E.	N.W.	S.E.	S.W.	Boro.'
1909	144	180	108	116	114	128	127
1910	155	169	93	101	109	152	122
1911	165	159	174	102	123	188	153
1912	82	155	110	145	165	128	127
1913	105	162	135	123	157	90	127
1914	98	128	122	94	170	99	119
Average for 17 yrs	150	155	149	126	140	141	144
1915	127	151	128	129	57	112	112

	Males.	Females.	Total.
Disease of the Respiratory System	11	7	18
Disease of the Digestive System	6	3	9
Malformations	1	0	1
Disease of the Nervous System	4	0	4
Diseases of Early Infancy	17	11	28
General Diseases	7	6	13
Affections produced by External Causes	0	1	1
Uncertified	1	0	1
Inquests	0	0	0
	47	28	75

NOTIFICATION OF BIRTHS ACT, 1907.

Table showing the number of Births Notified during 1915.

	Male.	Female.	Total.	Stillborn
JANUARY	27	40	67	3
FEBRUARY	21	33	54	1
MARCH	26	34	60	3
APRIL	29	27	56	3
MAY	41	33	74	6
JUNE	33	34	67	4
JULY	32	18	50	4
AUGUST	34	32	66	0
SEPTEMBER	26	19	45	1
OCTOBER	25	21	46	0
NOVEMBER	21	23	44	3
DECEMBER	28	24	52	5
	343	338	681	33

Births Notified by	Midwives	601
,, ,,	Medical Men	35
,, ,,	Parents	9
,, ,,	Midwives and Medical Men	30
,, ,,	Parents and Medical Men	2
,, ,,	Others	1
	Total	681

All births were notified with the exception of 12 or 1.7 per cent. of the total

Births visited after receipt of Notifications	432
Births re-visited ,, ,,	576

Table showing Births Notified, Visits, etc.

Year.	Births Notified.				Births not Notified.		Births Visited.		Births Revis'd
	Males.	Femal's	Total.	Still-born.	No.	Prosecutions.	No.	% of Tota	
1909	433	400	833	39	27	13	644	77.3	323
1910	429	396	825	25	7	2	539	65.3	785
1911	395	388	783	43	6	0	483	61.7	627
1912	373	336	709	45	10	0	465	65.6	587
1913	407	366	773	46	12	0	351	45.4	560
1914	390	404	794	41	9	0	428	54.2	537
1915	343	338	681	33	12	0	432	63.4	576

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE YEAR 1915, FOR THE BOROUGH OF DARWEN.

On the Administration of the Factory and Workshop Act, 1901, in connection with :—

FACTORIES, WORKSHOPS, WORKPLACES AND HOMEWORK.

I.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises.	Inspections	Number of Written Notices.	Prosecutions.
Factories (including Factory Laundries)	119	11	...
Workshops (including Workshop Laundries)	314	13	...
Workplaces (others than Outworkers' premises included in Part 3 of this Report)	17	...	...
Total	450	24	...

II.—DEFECTS FOUND.

Particulars.	No. of Defects Found.	No. of Defects Remedied.	Prosecutions.
Nuisances under Public Health Acts :—			
Want of Cleanliness	5	5	...
Want of Ventilation	1	1	...
Overcrowding	...	...	...
Want of Drainage to Floors	...	...	...
Other Nuisances	10	10	...
Sanitary Accommodation :—			
Insufficient	...	...	...
Unsuitable or Defective	6	6	...
Not separate for Sexes	...	...	...
Total	22	22	...

III.—HOME WORK.

NATURE OF WORK.	OUTWORKERS' LISTS, SECTION 107									OUTWORK IN UNWHOLESOME PREMISES, SECTION 108			OUTWORK IN INFECTED PREMISES SECTIONS 109, 110		
	Lists received from Employers						Notices served on Occupiers as to keeping or sending lists	Prosecutions							
	Sending twice in the year			Sending once in the year											
	Lists	Out-work'rs		Lists	Out-work'rs										
		Contractors	Workmen		Contractors	Workmen		Failing to keep or permit inspection of lists	Failing to send lists	Instances	Notices served	Prosecutions	Instances	Orders made (S, 110)	Prosecutions (Sections 109, 110)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Wearing Apparel—															
(1) making, &c.	2	...	2	...	...	...	...	......	......	......	......	......	......	......	......

IV.—REGISTERED WORKSHOPS.

Textile Factories	65
Non-Textile Factories	45
Factory Workshops	68
Workshops	300
Workplaces	20
Total	498

V. OTHER MATTERS.

	Number.
Matters Notified to H.M. Inspector of Factories—	
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act (s. 5): Notified by H. M. Inspector	4
Reports (of action taken) sent to H.M. Inspector	9
Other	1
Underground Bakehouses (s 101) in use at the end of the year	4

GOVERNMENT TABLE I.

Vital Statistics of whole District during 1915 and previous Years.

NAME OF DISTRICT—DARWEN.

Year.	Population estimated to Middle of each Year.	**Births.**			**Total Deaths Registered in the District.**		**Transferable Deaths.**		**Nett Deaths belonging to the District.**			
		Un-corrected Number.	Nett.		Number.	Rate.	of Non-residents register'd in the District.	of Residents not registered in the District.	Under 1 Year of Age.		At all Ages.	
			Number.	Rate.					Number.	Rate per 1,000 Nett Births.	Number.	Rate.
1	2	3	4	5	6	7	8	9	10	11	12	13
1910	43,000	776	776	18.05	519	12.07	...	54	95	122	573	13.33
1911	40,398	754	756	19.71	592	14.65	3	52	116	153	641	15.87
1912	40,611	687	691	17.02	500	12.31	10	73	88	127	563	13.86
1913	40,824	735	738	18.08	518	12.69	6	67	94	127	579	14.18
1914	41,038	761	765	18.64	542	13.21	4	57	91	119	595	14.49
1915	38,782	663	Males 332 666 Females 334	16.23	524	13.51	5	71	75	112	Males 280 590 Females 310	15.21

Area of District in Acres (land and inland water)	5,959	
Total Population at all ages	40,332	At Census of 1911.
Total families or separate occupiers	9,674	

Institutions outside the District receiving sick and infirm persons from the District :

Union Workhouse, Blackburn.

Blackburn and East Lancashire Royal Infirmary, Blackburn.

Within the District —Bull Hill Sanitorium, Darwen.

Other Institutions, the deaths in which have been distributed amongst the several localities in the District:—

Royal Infirmary, Blackburn.
Union Workhouse, ,,
Asylum, Lancaster.
Royal Albert Institution, Lancaster
Asylum, Whittingham.
Royal Infirmary, Preston.
Asylum, St. Helens.
St. Mary's Hospital, Manchester.
Union Workhouse, Shepton Mallet

Is the Union Workhouse within the District? No.

GOVERNMENT TABLE II.

Cases of Infectious Diseases notified during the Year 1915.

NAME OF DISTRICT—DARWEN.

Notifiable Diseases.	Number of Cases Notified.								Total Cases Notified in each Locality. (*e.g.* Parish or Ward) of the District.						Total Cases Removed to Hospital.	Deaths in Hospital of Patients Removed from this District.
		At Ages—Years.							1	2	3	4	5	6		
	At all Ages	Under 1	1 to 5	5 to 15	15 to 25	25 to 45	45 to 65	65 and up's.	Central Ward.	West Central Ward.	North-East Ward.	North-West Ward.	South-East Ward.	South-West Ward.		
Smallpox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cholera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria (including Membranous Croup)	16	...	6	9	...	...	...	1	2	2	2	1	2	8	...	...
Erysipelas	18	...	...	...	...	9	8	1	4	2	4	1	2	5	...	...
Scarlet Fever	158	1	28	116	8	5	...	...	6	1	48	35	31	31	78	1
Typhus Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric Fever	6	...	...	...	2	3	1	...	...	1	1	1	1	2	...	...
Relapsing Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever	2	...	...	...	...	2	...	...	1	...	...	...	1	...	...	...
Cerebro-Spinal Meningitis	1	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...
Poliomyelitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ophthalmia Neonatorum	7	7	...	...	...	...	...	...	...	...	2	1	3	1	...	...
Pulmonary Tuberculosis	71	...	...	4	12	33	20	2	13	10	16	15	6	11	...	...
Other forms of Tuberculosis	13	...	...	4	3	4	1	1	1	1	1	...	3	7	...	...
Totals	292	8	34	133	25	57	30	5	27	23	74	54	49	65	78	1

ISOLATION HOSPITAL.—Bull Hill Hospital, Darwen. SANATORIA, &c.—Bull Hill Sanatorium, Darwen. (In temporary use for County Patients).

GOVERNMENT TABLE III.

Causes of, and Ages at Death during the Year 1915.

NAME OF DISTRICT—DARWEN.

CAUSES OF DEATH. 1	Nett Deaths at the subjoined ages of "Residents" whether occurring within or without the District (a)									Total deaths whether of 'Residents' or 'Non-residents' in Institutions in the district (b) 11
	All Ages 2	Under 1 year 3	1 and under 2 years 4	2 and under 5 years 5	5 and under 15 years 6	15 and under 25 years 7	25 and under 45 years 8	45 and under 65 years 9	65 and upwards 10	
ALL CAUSES—										
Certified (c)	575	74	37	22	19	22	73	156	172	4
Uncertified	15	1	1	...	3	...	1	4	5	...
Enteric Fever	3	...	...	...	...	2	1	...	...	...
Small Pox	...	...	...	...	...	...	...	...	...	...
Measles	27	4	14	6	3	...	...	...	...	...
Scarlet Fever	2	...	...	...	2	...	...	...	...	1
Whooping Cough	12	6	5	1	...	...	...	...	...	...
Diphtheria and Croup	4	1	...	1	2	...	...	...	...	...
Influenza	12	1	1	...	...	...	4	3	3	...
Erysipelas	...	...	...	...	...	...	...	...	...	...
Phthisis (Pulmonary Tuberculosis)	22	...	...	...	2	3	10	6	1	3
Tuberculous Meningitis	1	...	...	...	1	...	...	...	...	...
Other Tuberculous Diseases	9	...	...	3	...	3	1	1	1	...
Cancer, malignant disease	43	...	...	...	...	...	8	21	14	...
Rheumatic Fever	3	...	...	1	...	1	...	1	...	...
Meningitis	4	1	...	1	...	...	2	...	...	...
Organic Heart Disease	62	...	...	...	2	5	9	23	23	...
Bronchitis	46	6	3	...	...	...	2	13	22	...
Pneumonia (all forms)	35	12	8	1	...	1	4	1	8	...
Other Diseases of Respiratory Organs	8	...	...	...	2	...	...	6	...	...
Diarrhœa and Enteritis	18	7	2	2	...	...	1	5	1	...
Appendicitis and Typhlitis	2	...	...	...	1	...	1	...	...	...
Cirrhosis of Liver	3	...	...	...	...	...	1	2	...	...
Alcoholism	...	...	...	...	...	...	...	...	...	...
Nephritis and Bright's Disease	18	...	...	...	1	2	3	10	2	...
Puerperal Fever	1	...	...	...	...	...	1	...	...	...
Other accidents and diseases of Pregnancy and Parturition	6	...	...	...	...	1	5	...	...	...
Congenital Debility and Malformation, including Premature Birth	27	26	...	1	...	...	...	...	...	...
Violent Deaths, excluding Suicide	21	1	...	1	2	...	5	5	7	...
Suicide	9	...	...	...	...	1	4	3	1	...
Other Defined Diseases	166	9	4	2	...	3	8	51	89	...
Diseases ill-defined or unknown	26	1	1	2	4	...	3	10	5	...
TOTALS	590	75	38	22	22	22	74	160	177	4
Sub-entries included in above figures:										
Cerebro-spinal Meningitis	1	...	...	...	...	...	1	...	...	...
Poliomyelitis	...	...	...	...	...	...	...	...	...	...

Deaths of Children at School Ages for the last eighteen years.

	3 to 4		4 to 5		5 to 6		6 to 7		7 to 8		8 to 9		9 to 10		10 to 11		11 to 12		12 to 13		Total.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1898	2	5	6	4	7	...	1	...	1	2	...	1	...	...	1	1	1	1	1	1	20	15
1899	3	2	7	5	3	4	1	3	1	1	1	4	...	2	1	1	...	1	...	...	17	23
1900	9	14	12	2	3	9	4	3	1	6	2	2	...	3	...	3	1	1	4	1	36	44
1901	10	7	7	6	2	4	2	3	3	2	2	2	1	5	1	3	1	1	1	...	30	33
1902	6	5	3	4	2	1	3	...	...	4	1	1	5	...	1	1	1	1	2	...	24	17
1903	1	1	1	4	1	1	3	...	1	...	1	2	...	2	...	3	...	...	...	...	8	13
1904	13	8	7	2	3	1	1	6	1	3	2	3	2	4	...	...	2	...	1	1	32	28
1905	7	2	2	2	1	4	1	6	...	1	6	...	2	...	1	...	2	1	...	...	22	16
1906	1	3	4	5	...	...	1	1	1	2	3	...	1	...	...	...	2	2	...	2	13	15
1907	5	2	1	1	1	3	...	...	...	...	...	1	3	1	1	...	...	3	3	...	14	11
1908	4	2	...	1	...	...	1	1	1	3	1	1	3	...	...	...	...	1	2	...	12	9
1909	4	5	...	1	3	3	1	3	2	1	2	1	...	1	2	...	...	2	1	1	15	18
1910	1	4	2	2	1	1	2	6	1	3	...	...	...	2	...	...	2	2	2	...	11	20
1911	3	6	2	6	1	4	1	1	...	...	1	2	1	...	1	1	1	1	...	1	11	22
1912	3	3	1	1	3	2	3	2	3	...	...	2	...	...	2	3	1	...	...	3	16	16
1913	4	5	...	2	...	5	...	1	2	3	2	3	...	...	...	2	1	...	...	1	9	22
1914	1	1	2	1	5	2	...	...	2	...	...	1	2	2	1	1	1	1	...	...	14	9
1915	7	6	1	3	2	3	1	2	2	2	1	...	1	...	...	1	...	1	1	...	16	18

Estimated Population, Number of Deaths, and Death-rates from all Causes, from Zymotic Diseases, of Children under 1 Year, and Persons of 60 years and upwards, during the last 25 years.

YEAR.	Estimated Population at Middle of Year.	Total Deaths from all causes	Death Rate per 1,000 of Population.	Total Deaths from Seven Principal Zymotic Diseases	Death Rate from Zymotic Diseases per 1,000 of Population.	Total Deaths under 1 Year of Age.	Percentage of Deaths under 1 Year to Total Deaths.	Total Deaths of Persons 60 Years and Upwards.	Percentage of Deaths of Aged Persons to Total Deaths.
1891	34,192	660	19.30	60	1.75	168	25.4	126	19.0
1892	35,000	641	18.31	67	1.91	177	27.6	105	16.3
1893	35,500	677	19.07	79	2.22	184	27.1	141	20.8
1894	36,000	542	15.05	40	1.11	130	23.9	107	19.7
1895	36,000	640	17.77	77	2.13	179	27.9	124	19.3
1896	36,652	627	17.10	81	2.20	187	29.8	132	21.0
1897	37,500	651	17.36	63	1.68	182	27.9	135	20.7
1898	37,500	632	16.85	78	2.08	199	31.4	131	20.7
1899	37,900	647	17.07	89	2.34	200	30.9	119	18.3
1900	38,600	789	20.44	112	2.90	188	23.8	183	23.1
1901	38,212	620	16.22	82	2.14	145	23.3	156	25.1
1902	38,712	569	14.69	40	1.03	134	23.7	143	25.1
1903	39,114	501	12.80	30	0.76	117	23.3	147	29.3
1904	39,516	606	15.33	107	2.70	123	20.2	149	24.5
								65 and up'ds	
1905	39,918	562	14.07	40	1.00	118	20.9	106	18.8
1906	41,164	540	13.11	47	1.14	111	20.5	125	23.1
1907	41,864	527	12.58	29	0.69	104	19.7	110	20.8
1908	42,266	550	13.01	32	0.76	107	19.5	131	23.8
1909	42,668	616	14.44	47	1.10	104	16.8	140	22.7
1910	43,000	573	13.33	22	0.51	95	16.6	153	26.7
1911	40,398	641	15.87	61	1.51	116	18.1	161	25.1
1912	40,611	563	13.86	35	0.86	88	15.6	139	24.7
1913	40,824	579	14.18	11	0.27	94	16.2	153	26.4
1914	41,038	595	14.49	18	0.44	91	15.2	176	29.5
1915	38,782	590	15.21	55	1.42	75	12.7	177	30.0

Deaths during the Twenty-ThreeYears, 1893 to 1915 inclusive, of Children under 5 years.

	UNDER 5 YEARS OF AGE.																						
	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Smallpox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles	25	...	41	14	28	25	8	42	7	3	12	27	3	17	1	...	22	...	27	9	4	2	24
Scarlet Fever	7	2	2	5	2	1	15	7	8	5	...	10	14	3	...	1	1	3	3	...	...	1	...
Diphtheria	4	2	...	2	1	1	4	18	19	12	4	6	1	...	2	2	...	1	4	3	1	3	2
Whooping Cough	2	17	3	26	9	...	15	8	11	...	8	28	...	1	11	4	14	4	2	16	1	6	12
Croup	13	1	10	2	1	3	2	10	5	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued Fevers :—																							
Typhus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Typhoid	...	...	...	...	...	...	...	...	1	...	1	2	...	...	...	...	...	...	...	...	...	...	...
Others	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhœa and Dysentry	20	6	18	17	11	42	25	11	14	4	1	9	3	21	4	15	2	2	17	7	2	13	11
Cholera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rheumatic Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1
Erysipelas	1	...	2	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Pyæmia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ague	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis	1	...	...	1	...	...	...	3	...	2	...	4	1	...	1	...	...	...	1	...	...	...	...
Bronchitis, Pneumonia, and Pleurisy	84	49	51	82	64	58	67	73	59	52	41	50	44	51	59	23	52	32	31	37	32	27	30
Heart Disease	...	...	1	...	...	1	4	1	3	1	1	1	2	1	...	...	2	...	2	...	1	1	...
Injuries	1	...	5	2	3	4	4	6	4	...	3	...	5	1	1	1	2	1	1	...	4	1	2
All other Diseases	126	118	138	153	150	143	145	163	114	104	97	96	106	81	74	94	72	88	102	56	85	67	53

Deaths during the Twenty-Three Years, 1893 to 1915 inclusive, of Persons of 5 years and upwards.

	YEARS AND UPWARDS.																						
	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Smallpox	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...
Measles	2	...	...	...	...	2	...	2	...	2	1	2	1	...	...	...	...	...	3	...	...	...	3
Scarlet Fever	3	2	...	...	2	...	7	4	6	4	...	12	7	...	...	1	1	1	...	...	...	...	2
Diphtheria	1	...	...	...	1	...	1	14	10	7	...	1	2	1	3	...	1	4	2	1	2	1	2
Whooping Cough	...	...	...	2	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Croup	10	2	1	2	1	3	1	3	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued Fevers :—																							
Typhus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Typhoid	7	9	10	8	7	6	12	4	3	8	...	6	3	4	4	8	5	6	3	4	...	5	3
Others	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhœa and Dysentery	7	...	3	...	...	2	2	2	3	1	...	...	8	...	1	1	1	1	...	3	1	5	7
Cholera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rheumatic Fever	...	...	3	2	5	7	2	2	1	...	3	...	5	3	3	3	1	3	2	10	9	4	2
Erysipelas	...	1	...	1	2	...	1	2	...	...	...	...	1	1	...	...	...	3	1	1	1	1	...
Pyæmia	...	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal	1	3	5	5	3	5	1	1	...	1	1	3	3	2	...	1	3	2	1	3	1	...	1
Ague	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis	44	44	38	28	27	28	31	27	29	29	22	34	35	19	34	25	35	24	33	29	32	29	22
Bronchitis, Pneumonia, and Pleurisy	82	52	72	53	93	60	65	89	72	70	53	53	56	75	51	44	76	74	64	35	60	119	53
Heart Disease	57	47	4	37	35	47	55	53	55	54	57	53	56	63	53	52	56	48	60	59	52	51	62
Injuries	1	5	20	15	9	4	6	4	7	1	4	...	6	4	6	7	14	13	12	16	12	11	19
All other Diseases	168	180	16	184	197	189	172	250	157	198	192	208	200	192	216	268	256	263	270	274	277	247	279

STATISTICS FROM LANCASHIRE TOWNS.

TOWN.	Estimated Population, 1915.	Birth Rate (per 1,000).	Death Rate (Corrected).	Zymotic Death Rate.	Respiratory Death Rate.	Phthisis. Death Rate.	Death Rate from other Tubercular Diseases.	Infantile Death Rate per 1,000 Births.	Cancer Death Rate.
Bacup	21,325	17.91	16.97	0.70	3.61	0.89	0.50	99	1.21
Barrow-in-Furness	75,368	26.20	15.10	1.57	3.40	0.67	0.14	124	0.78
Blackburn	134,716	19.20	17.40	...	3.40	0.80	0.31	145	1.23
Blackpool	64.208	15.54	16.46	0.70	3.30	1.09	0.20	128	1.32
Bolton	172,514	19.50	15.70	1.40	3.60	1.03	0.28	123	1.04
Bootle	71617	27.60	17.96	2.56	3.61	1.42	0.57	142	0.99
Burnley.......................	103,098	19.50	16.90	1.59	4.08	0.88	0.43	165	0.76
Chorley	28,930	24.30	17.58	0.86	3.35	1.04	0.07	132	0.83
Colne	26.951	15.69	12.68	0.70	1.10	2.66	0.03	115	0.11
Farnworth	26.241	19.80	18.30	2.85	3.84	0.99	0.60	172	0.76
Heywood	25,809	19.33	18.17	1.56	3.02	1.04	0.27	135	1.08
Liverpool	772,595	28.00	19.30	2.09	4.44	1.68	0.47	133	0.93
Manchester	746,793	22.23	16.31	0.99	3.36	1.76	0.42	128	1.04
Middleton	27,806	17.40	16.10	0.64	4.20	1.47	0.35	93	1.20
Nelson	40.747	15.40	11.00	0.67	2.55	0.71	0.04	92	0.66
Oldham	151,044	19.80	17.10	1.00	3.70	1.30	...	126	...
Salford	219979	24.80	19.10	2.80	4.30	1.70	0.50	134	1.10
Southport	71,700	13.96	14.94	0.36	2.29	0.78	0.14	98	1.30
Stretford	44,042	15.10	12.30	0.84	2.04	0.97	0.31	89	1.15
Wigan	86,329	27.61	19.17	3.13	4.97	1.10	0.35	163	0.55
Waterloo-with-Seaforth ...	29,564	20.94	13.63	1.35	0.23	0.54	0.30	90	1.31
DARWEN	38,782	16.23	15,21	1.42	2.29	0.56	0.26	112	1.11

Notification of Infectious Diseases and attack rates in various Towns during 1915.

TOWNS.	SMALL POX.		SCARLET FEVER.		DIPHTHERIA		FEVERS.			
							TYPHOID.		PUERPERAL.	
	Number.	Rate per 1000	Number.	Rate per 1000	Number.	Rate per 1000	Number.	Rate per 1000	Number.	Rate per 1000
1. Hyde	...	...	115	3.52	12	0.37	4	0.12	5	0.15
2. Stockport	...	...	685	5.71	98	0.82	26	0.22	4	0.03
3. Macclesfield	...	...	65	2.02	19	0.59	7	0.22	3	0.09
4. Crewe	1	0.02	184	4.02	73	1.59	3	0.07	2	0.04
5. Chester	...	...	57	1.52	73	1.95	1	0.03	4	0.11
6. Birkenhead	...	...	300	2.22	80	0.59	20	0.15	12	0.09
7. Wallasey	...	...	208	2.45	88	1.04	14	0.16	2	0.02
8. Bootle	...	...	269	3.76	72	1.01	16	0.22	3	0.04
9. Liverpool	...	...	2975	4.02	1206	1.63	105	0.14	54	0.07
10. Waterloo-with-Seaforth	...	...	136	4.95	39	1.42	4	0.15	...	...
11. St. Helens	...	...	505	5.47	282	3.06	28	0.03	11	0.12
12. Widnes	...	...	156	5.05	31	1.00	15	0.49	1	0.03
13. Southport	...	...	303	4.60	74	1.12	5	0.08	6	0.09
14. Hindley	...	...	189	8.02	14	0.59	6	0.25	1	0.04
15. Ince-in-Makerfield	...	...	324	14.91	9	0.41	6	0.28	3	0.14
16. Wigan	...	...	1608	18.63	37	0.43	45	0.52	5	0.06
17. Warrington	...	...	944	13.06	90	1.24	36	0.50	5	0.07
18. Leigh	...	...	390	8.86	45	1.02	23	0.52	3	0.07
19. Bolton	...	...	575	3.33	178	1.03	48	0.28	2	0.01
20. Farnworth	...	...	76	2.90	37	1.41	9	0.34	1	0.04
21. Bury	...	...	156	2.85	48	0.88	10	0.18	3	0.05
22. Heywood	...	...	171	6.63	40	1.55	3	0.12	...	...
23. Radcliffe	...	...	156	6.35	9	0.37	4	0.16	...	...
24. Eccles	...	...	145	3.43	70	1.66	16	0.38	1	0.02
25. Stretford	...	...	163	3.70	30	0.68	6	0.14	2	0.05
26. Swinton and Pendlebury	...	...	134	4.36	51	1.66	22	0.72	1	0.03
27. Manchester	...	...	2995	4.28	572	0.82	178	0.25	103	0.15
28. Salford	1	0.00	996	4.53	235	1.07	79	0.36	22	0.10
29. Ashton-under-Lyne	...	...	140	3.40	12	0.29	9	0.22	...	...
30. Stalybridge	...	...	75	3.06	7	0.29	8	0.33	1	0.04
31. Chadderton	...	...	89	3.19	14	0.50	2	0.07	4	0.14
32. Middleton	...	...	86	3.09	31	1.11	9	0.32	1	0.04
33. Oldham	20	0.14	535	3.77	85	0.60	11	0.08	11	0.08
34. Rochdale	...	...	137	1.51	513	5.66	22	0.24	...	...
35. Accrington	...	...	74	1.72	13	0.30	12	0.28	3	0.07
36. Bacup	...	...	57	2.67	10	0.47	2	0.09	1	0.05
37’ Haslingden	...	...	33	1.85	13	0.73	14	0.78	...	...
38. Rawtenstall	...	...	33	1.12	30	1.01	17	0.57	1	0.03
39. Burnley	...	...	414	4.02	102	0.99	21	0.20	7	0.07
40. Colne	...	...	118	4.67	9	0.36	10	0.40	2	0.08
41. Nelson	...	...	408	10.01	83	2.04	1	0.02	...	...
42. Blackburn	...	...	460	3.61	39	0.31	44	0.35	5	0.04
43. Chorley	...	...	56	1.94	4	0.14	6	0.21	...	...
44. Preston	...	...	692	6.18	197	1.76	44	0.39	9	0.08
45. Blackpool	...	...	318	4.95	33	0.51	34	0.53	8	0.12
46. Fleetwood	...	...	29	1.91	13	0.85	8	0.53	1	0.07
47. Lancaster	...	...	61	1.80	29	0.86	17	0.50	1	0.03
48. Barrow-in-Furness	...	...	177	2.13	118	1.42	2	0.02	...	...
49. DARWEN	...	...	158	4.07	16	0.41	6	0.15	2	0.05

Table showing the Diseases and Age Periods at which Persons have Died.

DISEASES.	Under 1 yr		1 to 2		2 to 5		5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
GENERAL DISEASES.																				
Addison's Disease	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Anæmia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	1
Anæmia (Pernicious)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Cancer of Bowel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2
,, ,, Breast	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	2	...	1	...	4
,, ,, Heart	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
,, ,, Hip	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
,, ,, Intestine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
,, ,, Kidney	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
,, ,, Liver	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	...	4
,, ,, Oesophagus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
,, ,, Pancreas	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...	2	1
,, ,, Peritoneum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
,, ,, Pylorus	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	3	1	...	2	3
,, ,, Rectum	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	1	1
,, ,, Sigmoid	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
,, ,, Skin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
,, ,, Stomach	...	...	...	...	...	...	...	...	...	...	...	...	3	...	1	1	2	2	6	3
,, ,, Tongue	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	2	...
,, ,, Uterus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...	3
,, ,, Vulva	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Croup	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Diabetes	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...	1	2	4	2
Diphtheria	1	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	3	...
Enteric Fever	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	2	1
Exophthalmic Goitre	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Influenza	...	1	...	1	...	...	...	...	...	...	...	2	1	1	2	1	1	2	4	8
Measles	2	2	5	9	2	4	...	3	...	...	...	...	...	...	...	...	...	...	9	18
Mediastinal Tumour	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Ophthalmia Neonatorum	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Osteo-Arthritis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	1
Phthisis	...	...	...	...	...	...	1	1	2	1	2	4	1	3	5	1	...	1	11	11
Rheumatic Fever	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	1	...	...	1	2
Rheumatic (Chronic)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Scarlet Fever	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
Septicæmia	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	1	...	...	2	2
Tuberculosis Generalised	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...
,, Intestines	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Tubercular Cystitis	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...
,, Fistual-in-Ano	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
,, Lumbar Vertebrae	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
,, Mesenteric Glands	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
,, Meningitis	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
,, Peritonitis	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	2
,, Tarsus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Whooping Cough	3	3	2	3	...	1	...	...	...	...	...	...	...	...	...	...	...	...	5	7
	7	6	7	13	4	8	4	6	4	5	5	7	8	8	20	22	8	16	67	91

Diseases and Age Periods at which Persons have Died.—Continued.

DISEASES.	Under 1 yr		1 to 2		2 to 5		5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
DISEASES OF THE NERVOUS SYSTEM.																				
Apoplexy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	6	9	9	16	15
Cerebral Congestion	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
,, Hernia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
,, Paralysis	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...
Cerebro-Spinal Meningitis	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
,, ,, Sclerosis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	2	...
Cerebral Tumour	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	2
Convulsions	3	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	2
Encephalitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Epilepsy	...	...	...	...	...	...	...	...	1	...	2	1	...	...	...	2	...	...	3	3
General Paralysis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
General Paralysis of Insane	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	1	1
Hemiplegia	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	1
Mastoid Disease	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Meningitis	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...
,, (Basal)	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
Myelitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Paralysis Agitans	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	1
Softening of Brain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	3	...	3	1
	4	...	2	2	1	...	...	...	1	...	3	3	...	1	9	16	16	9	36	31
DISEASES OF CIRCULATORY SYSTEM.																				
Angina Pectoris	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Arterio Sclerosis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	4	6	9	8	13
Cerebral Embolism	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	3	2	4
Endocarditis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Heart Disease	...	...	...	...	...	...	1	1	1	4	1	2	1	5	9	14	12	11	25	37
	...	...	...	...	...	...	1	1	1	4	1	2	1	5	12	20	19	24	35	56
DISEASES OF RESPIRATORY SYSTEM.																				
Asthma	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	2	...
Bronchitis	4	2	1	2	...	...	...	...	...	...	...	1	...	1	4	9	6	16	15	31
Broncho-Pneumonia	7	4	3	2	...	1	...	...	...	...	...	...	...	1	...	...	...	2	10	10
Gangreene of Lung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Laryngitis	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	1
Pleurisy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	1	1
Pneumonia	...	1	...	3	...	...	...	...	...	1	2	...	1	...	1	...	5	1	9	6
Pulmonary Congestion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
	11	7	4	7	...	1	1	1	...	1	2	1	1	2	10	10	11	19	40	49

Diseases and Age Periods at which Persons have Died.—Continued.

DISEASES.	Under 1 yr		1 to 2		2 to 5		5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
DISEASES OF DIGESTIVE SYSTEM.																				
Appendicitis	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	2	...
Acute Pharyngitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Biliary Calculi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Cholecystitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Cirrhosis of Liver	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...	...	...	3	...
Diarrhœa	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	1	1	2
Gastro Enteritis	3	1	1	1	...	...	...	...	...	...	...	...	...	1	1	...	...	...	5	3
Hepatitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Infective Enteritis	2	1	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	4	1
Inflammation of Stomach	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Perforated Duodenal Ulcer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Peritonitis	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	1	1
Tonsillitis	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1
Ulceration of Intestines	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Ulceration of Mouth & Stomach	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Vomiting (uncontrolable)	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
	6	3	1	1	4	...	1	...	1	1	1	...	1	1	6	4	1	2	22	12
NON VENEREAL DISEASES OF THE GENITO URINARY SYSTEM & ANNEXA.	...																			
Acute Nephritis	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Bright's Disease	...	...	...	...	...	...	1	...	1	...	...	2	1	...	7	3	2	...	12	5
Calculus of Bladder	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Cystitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Disease of Prostate	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Hypertrophy of Prostate	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...	3	...
Uterine Tumour	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
	...	...	...	...	...	...	1	...	1	1	...	2	1	...	8	4	7	...	18	7
THE PUERPERAL STATE.																				
Confinement	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	2
Difficult Parturition	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Dystocia	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Hyperemisis Gravidarum	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Puerperal Convulsions	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Puerperal Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
	...	...	...	...	...	...	...	...	...	1	...	2	...	4	...	...	...	...	...	7
DISEASES OF THE SKIN AND CELLULAR TISSUE.																				
Gangrene of Leg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Ulcer of Leg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	2

Diseases and Age Periods at which Persons have Died.—Continued.

DISEASES.	Under 1 yr		1 to 2		2 to 5		5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
MALFORMATIONS.																				
Congenital Hydrocephalus	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Spina Bifida	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
DISEASES OF EARLY INFANCY.																				
Asthenia	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Icterus Neonatorum	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Inanition	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	2
Infantile Debility	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Injury at Birth	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Marasmus	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Melaena Neonatorum	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Premature Birth	9	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	5
	17	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17	11
OLD AGE.																				
Senile Decay	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11	16	11	16
Senile Dementia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	3	1	3
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	19	12	19
AFFECTIONS PRODUCED BY EXTERNAL CAUSES																				
Burns (accidental)	...	...	...	...	...	1	...	1	...	...	1	...	...	...	...	1	...	...	1	3
Injuries (accidental)	...	...	...	...	...	...	1	...	...	...	3	...	1	...	3	1	1	6	9	7
Suffocation (overlying)	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Suicide (cutting throat)	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	2	...
,, (drowning)	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1	...	1	...	4	...
,, (hanging)	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	1	1
,, (strangulation)	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
	...	1	...	...	...	1	1	1	1	...	4	...	3	2	6	2	2	6	17	13
ILL DEFINED CAUSES.																				
Atrophy	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Dropsy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Marasmus	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Shock (operation)	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
	...	...	...	...	1	1	...	...	...	...	...	1	...	...	1	...	...	...	2	2
INQUESTS	...	...	...	...	...	...	1	...	...	...	...	...	...	1	5	...	...	...	6	1
UNCERTIFIED	1	...	1	...	...	...	1	2	...	...	...	...	1	..	1	3	1	4	6	9

METEOROLOGY.

The Meteorological Observatory is at Bold Venture Park, in Lat. 53° 41′ 25″ N., and Lon. 2° 28′ 32″ W., and is at an altitude of 728 feet above mean sea level.

Observations are taken twice daily, at 9 a.m. and 9 p.m.

This station is connected with the Meterorological Office, and is called a Normal Climatological Station. Readings are sent daily, and a report giving all details is sent each month to the Meterorological Office, London.

The total rainfall for the year is 51.64 inches being recorded on 220 days. The average for the last nine years being 55.06 inches. The greatest monthly fall was in December, 10.27 inches ; and the lowest in September, 1.00 inches. The greatest daily fall was 1.54 inches, on December 5th.

The total sunshine registered on 276 days during the year was 1261.4 hours being above the average for the last nine years, which is 1150.2 hours. May registered the highest monthly total, 229.2 hours ; and December the lowest, 16.0 hours. The highest daily reading was 13.7 hours, on May 23rd and 24th.

The mean maximum temperance in shade was 52.1°, being below the average for the last nine years which was 52.40°. The highest monthly mean was in June, 66.0° ; and the highest reading for the year was 74.1°, on June 25th.

The mean minimum temperature in shade was 40.5°, being below the average for the last nine years which was 40.6°. The lowest monthly mean was in February, 32.6°, and the lowest reading for the year 23.6°, on March 29th.

The mean maximum temperature in the sun was 79.9°. The average for the last nine years was 78.3°. The highest monthly mean was 98.5°, in August ; and the highest reading 110.6° on July 5th. The highest reading during the last nine years was 117.5° in 1911.

The mean minimum temperature on grass was 36.7°, being below the average for the last nine years which was 37.6°. The lowest monthly mean was 25.9°, in November, and the lowest reading for the year was 13.1°, on November 17th.

The maximum wind velocity was on February 13th, when an easterly wind was blowing at the rate of 39 miles per hour.

Five observations of calm were recorded, 5 observations of fog, 24 observations of snow, and 15 observations of hail, 95 observations of ground frost, 15 observations of thunder, 16 observations of lightning.

JANUARY.

Barometer, Mean Corrected Reading	29.944	inches.
,, Highest Corrected Reading on the 18th	30.518	,,
,, Lowest Corrected Reading on the 1st	28.637	,,
Dry Bulb Thermometer, Mean Temperature	37.2	degrees.
Wet Bulb Thermometer, Mean Temperature	36.4	,,
Maximum Thermometer, Mean Temperature	40.2	,,
,, ,, Highest Temperature recorded on 13th	50.0	,,
Minimum Thermometer, Mean Temperature	33.5	,,
,, ,, Lowest Temperature recorded on 29th	27.3	,,
Water Thermometer, Mean Temperature	37.0	,,
,, ,, Highest Temperature recorded on 14th	49.8	,,
,, ,, Lowest Temperature recorded on 30th	36.0	,,
Grass Minimum Thermometer, Mean Temperature	30.9	,,
Earth Thermometer, Mean Temperature, 1ft	37.3	,,
,, ,, ,, ,, 4ft	40.8	,,
,, ,, ,, ,, 10ft	43.3	,,
Humidity, Mean	89	%
,, Highest recorded on 14th,	100	%
,, Lowest recorded on 17th	67	%
Rainfall, Total Fall	7.94	inches.
,, Daily average	0.26	,,
,, Greatest fall on 15th	1.43	,,
,, Recorded on	23	days.
Sunshine, Total duration	25.5	hours.
,, Daily Average	0.82	,,
,, Highest on 17th	6.1	,,
,, Recorded on	14	days.
Wind, Mean Velocity in miles per hour	17	
,, Maximum Velocity in miles per hour on 15th, dir. S.W.	28	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
1	1	3	5	11	8	17	16

Cloud, Mean Amount (overcast sky, indicated by 10) 8.5
Days of Clear Sky—0.
Days of Overcast Sky—20.
Observations of Wind Forces—4 to 7—29.
Hail on 4 Days.
Snow on 2 Days.
Ground Frost on 15 Days.

FEBRUARY.

Barometer, Mean Corrected Reading	29.555	inches.
,, Highest Corrected Reading on the 25th	30.440	,,
,, Lowest Corrected Reading on the 13th	28.725	,,
Dry Bulb Thermometer, Mean Temperature	37.2	degrees.
Wet Bulb Thermometer, Mean Temperature	36.1	,,
Maximum Thermometer, Mean Temperature	41.3	,,
,, ,, Highest Temperature recorded on 3rd.	48.3	,,
Minimum Thermometer, Mean Temperature	32.6	,,
,, ,, Lowest Temperature recorded on 24th	23.8	,,
Water Thermometer, Mean Temperature	40.0	,,
,, ,, Highest Temperature recorded on 2nd	49.3	,,
,, ,, Lowest Temperature recorded on 8th	35.8	,,
Grass Minimum Thermometer, Mean Temperature	30.4	,,
Earth Thermometer, Mean Temperature, 1ft	37.2	,,
,, ,, ,, ,, 4ft	39.5	,,
,, ,, ,, ,, 10ft	43.8	,,
Humidity, Mean	89	%
,, Highest recorded on 1st, 5th, 7th 10th	98	%
,, Lowest recorded on 26th	73	%
Rainfall, Total Fall	8.08	inches.
,, Daily average	0.29	,,
,, Greatest fall on 16th	1.16	,,
,, Recorded on	23	days.
Sunshine, Total duration	52.4	hours.
,, Daily Average	1.87	,,
,, Highest on 24th	7.9	,,
,, Recorded on	18	days.
Wind, Mean Velocity in miles per hour	16	
,, Maximum Velocity in miles per hour on 13th, dir. E.	39	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
1	1	2	3	24	5	11	9

Cloud, Mean Amount (overcast sky indicated by 10)	7.9

Days of Clear Sky—0.
Days of Overcast Sky—14.
Days of Calm—0.
Observations of Wind Forces 4 to 7—32.
Hail on 4 Days.
Snow on 9 Days.
Fog on 1 Day.
Ground Frost on 15 Days.
Gale on 1 Day.

MARCH.

Barometer,	Mean Corrected Reading	30.023	inches.
,,	Highest Corrected Reading on the 9th	30.512	,,
,,	Lowest Corrected Reading on the 18th	29.602	,,
Dry Bulb Thermometer,	Mean Temperature	39.4	degrees.
Wet Bulb Thermometer,	Mean Temperature	38.1	,,
Maximum Thermometer,	Mean Temperature	44.9	,,
,, ,,	Highest Temperature recorded on 24th	56.6	,,
Minimum Thermometer,	Mean Temperature	38.8	,,
,, ,,	Lowest Temperature recorded on 29th	23.6	,,
Water Thermometer,	Mean Temperature	42.8	,,
,, ,,	Highest Temperature recorded on 5th	49.0	,,
,, ,,	Lowest Temperature recorded on 27th	37.0	,,
Grass Minimum Thermometer,	Mean Temperature	31.7	,,
Earth Thermometer,	Mean Temperature, 1ft	40.9	,,
,, ,,	,, ,, 4ft	40.3	,,
,, ,,	,, ,, 10ft	42.9	,,
Humidity,	Mean	89	%
,,	Highest recorded on 10th, 11th, 13th, 14th, 24th	99	%
,,	Lowest recorded on 3rd	66	%
Rainfall,	Total Fall	2.77	inches.
,,	Daily average	0.09	,,
,,	Greatest fall on 5th	0.54	,,
,,	Recorded on	21	days.
Sunshine,	Total duration	92.2	hours.
,,	Daily Average	2.97	,,
,,	Highest on 21st	9.1	,,
,,	Recorded on	24	days.
Wind,	Mean Velocity in miles per hour	16	
,,	Maximum Velocity in miles per hour on 1st, dir. N.W.	34	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
7	9	1	2	3	4	24	12

Cloud, Mean Amount (overcast sky indicated by 10)	8.0

Days of Clear Sky—0.
Days of Overcast Sky—19.
Days of Calm—0.
Observations of Wind Forces 4 to 7—19.
Hail on 1 Day.
Snow on 6 Days.
Ground Frost on 15 Days.

APRIL.

Barometer, Mean Corrected Reading	30.192	inches.
,, Highest Corrected Reading on the 28th	30.442	,,
,, Lowest Corrected Reading on the 7th	29.143	,,
Dry Bulb Thermometer, Mean Temperature	43.61	degrees
Wet Bulb Thermometer, Mean Temperature	41.16	,,
Maximum Thermometer, Mean Temperature	50.9	,,
,, ,, Highest Temperature recorded on 29th	65.8	,,
Minimum Thermometer, Mean Temperature	37.4	,,
,, ,, Lowest Temperature recorded on 23rd	30·7	,,
Water Thermometer, Mean Temperature	45.5	,,
,, ,, Highest Temperature recorded on 28th	54.0	,,
,, ,, Lowest Temperature recorded on 6th	40.0	,,
Grass Minimum Thermometer, Mean Temperature	34.8	,,
Earth Thermometer, Mean Temperature, 1ft	45.5	,,
,, ,, ,, ,, 4ft	42.8	,,
,, ,, ,, ,, 10ft	43.4	,,
Humidity, Mean	82	%
,, Highest recorded on 3rd, 15th, 22nd,	99	%
,, Lowest recorded on 29th	46	%
Rainfall, Total Fall	2.81	inches.
,, Daily average	0.09	,,
,, Greatest fall on 3rd	6.63	,,
,, Recorded on	20	days.
Sunshine, Total duration	148.0	hours.
,, Daily Average	4.93	,,
,, Highest on 2nd	12.5	,,
,, Recorded on	26	days.
Wind, Mean Velocity in miles per hour	15	
,, Maximum Velocity in miles per hour on 8th, dir. W.	24	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
3	6	4	2	7	3	22	13

Cloud, Mean Amount (overcast sky indicated by 10)	7.5

Days of Clear Sky—0.
Days of Overcast Sky—16.
Days of Calm—0.
Observations of Wind Forces 4 to 7—25.
Ground Frost on 6 Days.
Hoar Frost on 5 Days.
Mist on 1 Day.

MAY.

Barometer,	Mean Corrected Reading	30.102	inches
,,	Highest Corrected Reading on the 9th	30.577	,,
,,	Lowest Corrected Reading on the 17th	29.770	,,
Dry Bulb Thermometer,	Mean Temperature	49.64	degrees.
Wet Bulb Thermometer,	Mean Temperature	45.53	,,
Maximum Thermometer,	Mean Temperature	58.6	,,
,, ,,	Highest Temperature recorded on 25th	73.0	,,
Minimum Thermometer,	Mean Temperature	40.7	,,
,, ,,	Lowest Temperature recorded on 14th	29.8	,,
Water Thermometer,	Mean Temperature	49.9	,,
,, ,,	Highest Temperature recorded on 25th	57.0	,,
,, ,,	Lowest Temperature recorded on 12th	38.0	,,
Grass Minimum Thermometer,	Mean Temperature	38.4	,,
Earth Thermometer,	Mean Temperature, 1ft	52.9	,,
,, ,,	,, ,, 4ft	47.3	,,
,, ,,	,, ,, 10ft	44.5	,,
Humidity,	Mean	74	%
,,	Highest recorded on 1st	98	%
,,	Lowest recorded on 23rd	47	%
Rainfall,	Total Fall	1.58	inches.
,,	Daily average	0.05	,,
,,	Greatest fall on 12th	0.52	,,
,,	Recorded on	10	days.
Sunshine,	Total duration	229.2	hours.
,,	Daily Average	7.39	,,
,,	Highest on 23rd, 24th	13.7	,,
,,	Recorded on	30	days.
Wind,	Mean Velocity in miles per hour	15	
,,	Maximum Velocity in miles per hour on 12th, dir. E.N.E.	23	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
4	17	5	8	7	2	9	10

Cloud, Mean Amount (overcast sky indicated by 10) .... 6.4.

Days of Clear Sky—0.
Days of Overcast Sky—9.
Days of Calm—0.
Observations of Wind Forces 4 to 7—21.
Ground Frost on 3 Days.
Thunder on 1 Day.
Lightning on 2 Days.

JUNE.

Barometer, Mean Corrected Reading	30.308	inches.
,, Highest Corrected Reading on the 13th	30.342	,,
,, Lowest Corrected Reading on the 29th	29.730	,,
Dry Bulb Thermometer, Mean Temperature	56.7	degrees.
Wet Bulb Thermometer, Mean Temperature	51.7	,,
Maximum Thermometer, Mean Temperature	66.0	,,
,, ,, Highest Temperature recorded on 25th	74.1	,,
Minimum Thermometer, Mean Temperature	47.2	,,
,, ,, Lowest Temperature recorded on 19th	40.9	,,
Water Thermometer, Mean Temperature	53.6	,,
,, ,, Highest Temperature recorded on 27th	57.6	,,
,, ,, Lowest Temperature recorded on 3rd	48.9	,,
Grass Minimum Thermometer, Mean Temperature	44.4	,,
Earth Thermometer, Mean Temperature, 1ft	58.1	,,
,, ,, ,, ,, 4ft	51.6	,,
,, ,, ,, ,, 10ft	47.6	,,
Humidity, Mean	72	%
,, Highest recorded on 29th	99	%
,, Lowest recorded on 19th	47	%
Rainfall, Total Fall	2.00	inches.
,, Daily average	0.07	,,
,, Greatest fall on 28th	0.70	,,
,, Recorded on	13	days.
Sunshine, Total duration	182.0	hours.
,, Daily Average	6.06	,,
,, Highest on 13th and 18th	11.5	,,
,, Recorded on	20	days.
Wind, Mean Velocity in miles per hour	12	
,, Maximum Velocity in miles per hour on 17th, and 24th dir. E. and E.N.E.	20	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
0	10	7	11	6	1	16	7

Cloud, Mean Amount (overcast sky indicated by 10) 6.9

Days of Clear Sky—0.
Days of Overcast Sky—10.
Days of Calm—2.
Observations of Wind Forces 4 to 7—13.
Thunder on 2 Days.
Lightning on 2 Days.

JULY.

Barometer, Mean Corrected Reading	29.859	inches.
,, Highest Corrected Reading on the 1st	30.223	,,
,, Lowest Corrected Reading on the 6th	29.197	,,
Dry Bulb Thermometer, Mean Temperature	55.6	degrees.
Wet Bulb Thermometer, Mean Temperature	52.9	,,
Maximum Thermometer, Mean Temperature	62.3	,,
,, ,, Highest Temperature recorded on 30th.	69.4	,,
Minimum Thermometer, Mean Temperature	50.3	,,
,, ,, Lowest Temperature recorded on 13th, 16th, 26th and 31st	46.8	,,
Water Thermometer, Mean Temperature	54.8	,,
,, ,, Highest Temperature recorded on 5th	57.2	,,
,, ,, Lowest Temperature recorded on 2nd	52.1	,,
Grass Minimum Thermometer, Mean Temperature	44.9	,,
Earth Thermometer, Mean Temperature, 1ft	59.1	,,
,, ,, ,, ,, 4ft	54.6	,,
,, ,, ,, ,, 10ft	49.3	,,
Humidity, Mean	80	%
,, Highest recorded on 7th, and 22nd	100	%
,, Lowest recorded on 5th	66	%
Rainfall, Total Fall	4.28	inches.
,, Daily average	0.14	,,
,, Greatest fall on 16th	0.90	,,
,, Recorded on	24	days.
Sunshine, Total duration	142.0	hours.
,, Daily Average	4.58	,,
,, Highest on 25th	12.8	,,
,, Recorded on	28	days.
Wind, Mean Velocity in miles per hour	14	
,, Maximum Velocity in miles per hour on 17th, dir. W.	21	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
1	0	1	0	12	8	32	8

Cloud, Mean Amount (overcast sky indicated by 10)	8.0

Days of Clear Sky—0.
Days of Overcast Sky—16.
Days of Calm—0.
Observations of Wind Forces 4 to 7—20.
Thunder on 2 Days.
Lightning on 2 Days.

AUGUST.

Barometer, Mean Corrected Reading	30.018	inches.
,, Highest Corrected Reading on the 22nd	30.335	,,
,, Lowest Corrected Reading on the 2nd	29.523	,,
Dry Bulb Thermometer, Mean Temperature	56.7	degrees.
Wet Bulb Thermometer, Mean Temperature	54.5	,,
Maximum Thermometer, Mean Temperature	63.7	,,
,, ,, Highest Temperature recorded on 25th	69.0	,,
Minimum Thermometer, Mean Temperature	50.9	,,
,, ,, Highest Temperature recorded on 10th...	58.6	,,
Water Thermometer, Mean Temperature	51.3	,,
,, ,, Highest Temperature recorded, 24th to 31st.	52.2	,,
,, ,, Lowest Temperature recorded on 1st & 2nd.	50.3	,,
Grass Minimum Thermometer, Mean Temperature	48.5	,,
Earth Thermometer, Mean Temperature, 1ft	59.5	,,
,, ,, ,, ,, 4ft	56.0	,,
,, ,, ,, ,, 10ft	55.7	,,
Humidity, Mean	86	%
,, Highest recorded on 7th, 9th, and 16th	100	%
,, Lowest recorded on 18th and 24th	67	%
Rainfall, Total Fall	6.52	inches.
,, Daily average	0.21	,,
,, Greatest fall on 6th	1.06	,,
,, Recorded on	22	days.
Sunshine, Total duration	106.4	hours.
,, Daily Average	3.4	,,
,, Highest on 18th	11.3	,,
,, Recorded on	28	days.
Wind, Mean Velocity in miles per hour	11	
,, Maximum Velocity in miles per hour on 1st, dir. S.E.	19	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
3	2	1	6	8	4	26	11

Cloud, Mean Amount (overcast sky indicated by 10) 8.3

Days of Clear Sky—0.
Days of Overcast Sky—19.
Days of Calm—1.
Observations of Wind Forces 4 to 7—7.
Thunder on 9 Days.
Lightning on 9 Days.
Hail on 1 Day.

SEPTEMBER.

Barometer, Mean Corrected Reading	30.026	inches.
,, Highest Corrected Reading on the 16th	30.371	,,
,, Lowest Corrected Reading on the 26th	29.395	,,
Dry Bulb Thermometer, Mean Temperature	54.0	degrees.
Wet Bulb Thermometer, Mean Temperature	51.1	,,
Maximum Thermometer, Mean Temperature	61.9	,,
,, ,, Highest Temperature recorded on 8th	72.9	,,
Minimum Thermometer, Mean Temperature	47.5	,,
,, ,, Highest Temperature recorded on 16th	56.3	,,
Water Thermometer, Mean Temperature	52.9	,,
,, ,, Highest Temperature recorded on 17th	56.0	,,
,, ,, Lowest Temperature recorded on 29th	47.0	,,
Grass Minimum Thermometer, Mean Temperature	43.5	,,
Earth Thermometer, Mean Temperature, 1ft	57.3	,,
,, ,, ,, ,, 4ft	55.5	,,
,, ,, ,, ,, 10ft	52.6	,,
Humidity, Mean	81	%
,, Highest recorded on 27th	100	%
,, Lowest recorded on 28th	56	%
Rainfall, Total Fall	1.00	inches.
,, Daily average	0.03	,,
,, Greatest fall on 24th	0.33	,,
,, Recorded on	8	days.
Sunshine, Total duration	155.6	hours.
,, Daily Average	5.1	,,
,, Highest on 10th	10.6	,,
,, Recorded on	30	days.
Wind, Mean Velocity in miles per hour	13	
,, Maximum Velocity in miles per hour on 21st, dir. S.E.	20	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
4	3	2	9	12	6	19	5

Cloud, Mean Amount (overcast sky indicated by 10)	6.5

Days of Clear Sky—0.
Days of Overcast Sky—8.
Days of Calm—0.
Observation of Wind Forces 4 to 17—17.
Thunder on 1 Day.
Lightning on 1 Day.

OCTOBER.

Barometer,	Mean Corrected Reading	30.067	inches.
,,	Highest Corrected Reading on the 25th	30.473	,,
,,	Lowest Corrected Reading on the 28th	29.391	,,
Dry Bulb Thermometer,	Mean Temperature	46.9	degrees.
Wet Bulb Thermometer,	Mean Temperature	45.0	,,
Maximum Thermometer,	Mean Temperature	52.4	,,
,, ,,	Highest Temperature recorded on 13th	60.2	,,
Minimum Thermometer,	Mean Temperature	41.8	,,
,, ,,	Lowest Temperature recorded on 27th	31.7	,,
Water Thermometer,	Mean Temperature	46.8	,,
,, ,,	Highest Temperature recorded on 11th	51.6	,,
,, ,,	Lowest Temperature recorded on 31st	39.8	,,
Grass Minimum Thermometer,	Mean Temperature	36.2	,,
Earth Thermometer,	Mean Temperature, 1ft	49.0	,,
,, ,, ,, ,,	4ft	50.8	,,
,, ,, ,, ,,	10ft	52.0	,,
Humidity,	Mean	87	%
,,	Highest recorded on 14th, and 15th,	100	%
,,	Lowest recorded on 21st	70	%
Rainfall,	Total Fall	2.25	inches.
,,	Daily average	0.08	,,
,,	Greatest fall on 27th	0.82	,,
,,	Recorded on	16	days.
Sunshine,	Total duration	53.1	hours.
,,	Daily Average	1.71	,,
,,	Highest on 1st	6.9	,,
,,	Recorded on	24	days.
Wind,	Mean Velocity in miles per hour	27	
,,	Maximum Velocity in miles per hour on 14th, dir. E.	22	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
1	7	2	14	28	3	4	2

Cloud, Mean Amount (overcast sky indicated by 10) 8.2

Days of Clear Sky—0.

Days of Overcast Sky—15.

Days of Calm—1.

Observations of Wind Force 4 to 7—15.

Fog on 1 Day.

Mist on 3 Days.

Ground Frost on 6 Days.

NOVEMBER.

Barometer, Mean Corrected Reading	29.987	inches.
,, Highest Corrected Reading on the 20th	30.815	,,
,, Lowest Corrected Reading on the 29th	29.107	,,
Dry Bulb Thermometer, Mean Temperature	35.5	degrees.
Wet Bulb Thermometer, Mean Temperature	34.3	,,
Maximum Thermometer, Mean Temperature	40.5	,,
,, ,, Highest Temperature recorded on 7th	40.7	,,
Minimum Thermometer, Mean Temperature	30.81	,,
,, ,, Lowest Temperature recorded on 17th	23.6	,,
Water Thermometer, Mean Temperature	37.2	,,
,, ,, Highest Temperature recorded on 8th	45.7	,,
,, ,, Lowest Temperature recorded on 29th	35.8	,,
Grass Minimum Thermometer, Mean Temperature	25.9	,,
Earth Thermometer, Mean Temperature, 1ft	38.7	,,
,, ,, ,, ,, 4ft	45.4	,,
,, ,, ,, ,, 10ft	50.4	,,
Humidity, Mean	88	%
,, Highest recorded on 9th, 23rd and 30th	99	%
,, Lowest recorded on 14th	62	%
Rainfall, Total Fall	2.14	inches.
,, Daily average	0.07	,,
,, Greatest fall on 8th	0.94	,,
,, Recorded on	12	days.
Sunshine, Total duration	59.0	hours.
,, Daily Average	1.96	,,
,, Highest on 14th	5.7	,,
,, Recorded on	24	days.
Wind, Mean Velocity in miles per hour	11	
,, Maximum Velocity in miles per hour on 12th, dir. E.N.E.	29	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
5	7	4	7	7	5	11	13

Cloud, Mean Amount (overcast sky indicated by 10) 7.0
Days of Clear Sky—0.
Days of Overcast Sky—11.
Days of Calm—1.
Observation of Wind Forces 4 to 7—21.
Fog on 3 Days.
Mist on 3 Days.
Hail on 3 Days.
Snow on 1 Day.
Ground Frost on 4 Days.

MEAN METEOROLOGICAL READINGS FOR 1914 AND 1915.

	Barometer Corrected.		Thermometers.														Humidity.		Sunshine. (hours).		Rain (inches).		Wind Velocity.		Wind Direction, 1915.								
			Maximum.		Minimum.		Mean.		Earth.						Water.																		
									1 Foot.		4 Feet.		10 feet.																				
MONTH.	1914 ins.	1915 ins.	1914	1915	1914	1915	1914	1915	1914	1915	1914	1915	1914	1915	1914	1915	1914 %	1915 %	1914	1915	1914	1915	1914	1915	N	N E	E.	S.E.	S.	S.W.	W.	N.W.	C'lm
January ...	30.147	29.944	40.8	40.2	33.4	33.5	37.6	37.2	37.1	37.3	41.7	40.8	46.4	45.3	40.7	37.0	92	89	13.7	25.5	3.98	7.94	15	17	1	1	3	5	11	8	17	16	0
February .	29.632	29.555	46.5	41.3	37.1	32.6	41.8	37.2	45.1	37.2	42.5	39.5	45.0	43.8	43.9	40.0	91	89	39.6	52.4	3.98	8.08	19	16	1	1	2	3	24	5	11	9	0
March	29.600	30.023	45.3	44.9	35.5	38.8	40.4	39.4	41.4	40.9	42.4	40.3	44.4	42.9	42.2	42.8	92	89	63.7	92.2	6.50	2.77	17	16	7	9	1	2	3	4	24	12	0
April	30.070	30.192	56.1	50.9	39.7	37.4	47.7	43.6	47.2	45.5	44.8	42.8	44.6	43.4	46.4	45.5	77	82	187.8	148.0	2.15	2.81	13	15	3	6	4	2	7	3	22	13	0
May	30.104	30.102	55.9	58.6	42.2	40.7	48.3	49.6	52.8	52.9	48.8	47.3	46.2	44.5	47.6	49.9	84	74	121.5	229.2	2.65	1.58	13	15	4	17	5	8	7	2	9	10	0
June	30.085	30.308	63.5	66.0	48.0	47.2	56.0	56.7	58.9	58.6	52.5	51.6	48.5	47.6	53.4	53.6	80	72	185.7	182.0	2.53	2.00	12	12	0	10	7	11	6	1	16	7	2
July	29.870	29.859	65.5	62.3	51.9	50.3	58.9	55.6	62.5	59.1	56.3	54.6	51.2	49.3	54.9	54.8	82	80	131.0	142.0	5.46	4.28	13	14	1	0	1	0	12	8	32	8	0
August	30.019	30.018	66.8	63.7	51.6	50.9	58.6	56.7	61.3	59.5	57.2	56.0	53.0	55.7	552	51.3	84	86	171.7	106.4	3.90	6.52	11	11	3	2	1	6	8	4	26	11	1
September	30.070	30.026	61.7	61.9	46.7	47.5	53.7	54.0	56.6	57.3	56.6	55.5	54.0	52.6	51.6	52.9	86	81	176.6	155.6	5.47	1.00	15	13	4	3	2	9	12	6	19	5	0
October ...	30.049	30.067	54.0	52.4	44.7	41.8	48.9	46.9	51.2	49.0	52.7	50.8	53.1	52.0	48.0	46.8	91	87	50.7	53.1	3.31	2.25	13	13	1	7	2	14	28	3	4	2	1
November.	29.897	29.987	46.6	40.5	37.9	30.8	42.5	35.5	43.9	38.7	47.9	45.4	51.4	50.4	44.0	37.2	86	88	39.0	59.0	7.23	2.14	16	11	5	7	4	7	7	5	11	13	1
December	29.530	29.570	41.8	42.8	34.5	34.4	38.1	38.8	39.6	37.9	43.7	41.2	48.2	46.3	40.5	41.8	90	92	18.7	16.0	7.38	10.27	18	15	2	3	2	4	27	6	13	5	0
Totale	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1199.7	1261.4	54.54	51.64	...	...	32	66	34	71	152	55	204	111	5
Mean ...	29.923	29.971	53.7	52.1	41.9	40.5	47.7	46.2	49.8	47.8	48.9	47.1	48.8	47.8	47.4	46.1	86	84	99.9	105.1	4.54	4.30	14	14	...	...	...	...	...	...	...	...	...

DECEMBER.

Barometer, Mean Corrected Reading	29.570	inches.
,, Highest Corrected Reading on the 19th	30.515	,,
,, Lowest Corrected Reading on the 24th	28.790	,,
Dry Bulb Thermometer, Mean Temperature	38.8	degrees.
Wet Bulb Thermometer, Mean Temperature	38.0	,,
Maximum Thermometer, Mean Temperature	42.8	,,
,, ,, Highest Temperature recorded on 31st	50.8	,,
Minimum Thermometer, Mean Temperature	34.4	,,
,, ,, Lowest Temperature recorded on 13th	26.7	,,
Water Thermometer, Mean Temperature	41.8	,,
,, ,, Highest Temperature recorded on 2nd	43.8	,,
,, ,, Lowest Temperature recorded on 12th	38.8	,,
Grass Minimum Thermometer, Mean Temperature	31.2	,,
Earth Thermometer, Mean Temperature, 1ft	37.9	,,
,, ,, ,, ,, 4ft	41.2	,,
,, ,, ,, ,, 10ft	46.3	,,
Humidity, Mean	92	%
,, Highest recorded on 4th, 10th, 16th, 20th, 22nd, 25th	99	%
,, Lowest recorded on 12th	51	%
Rainfall, Total Fall	10.27	inches.
,, Daily average	0.33	,,
,, Greatest fall on 5th	1.54	,,
,, Recorded on	28	days.
Sunshine, Total duration	16.0	hours.
,, Daily Average	0.5	,,
,, Highest on 2nd	3.5	,,
,, Recorded on	10	days.
Wind, Mean Velocity in miles per hour	15	
,, Maximum Velocity in miles per hour on 11th, dir. S.W.	23	

Summary of Observations of Directions :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
2	3	2	4	27	6	13	5

Cloud, Mean Amount (overcast sky indicated by 10)	8.7

Days of Clear Sky—0.
Days of Overcast Sky—23.
Days of Calm—0.
Observations of Wind Forces 4 to 7—29.
Hail on 2 Days.
Snow on 6 Days.
Mist on 3 Days.
Ground Frost on 11 Days.

TABLE C.

COUNTY OF LANCASTER.

SUMMARY OF

Medical Officer's Report for 1915.

URBAN DISTRICT OF DARWEN.

Medical Officer of Health—FREDERIC GEORGE HAWORTH,
M.B.C.M., L.R.C.S., D.P.H. Salary as M.O.H., £250

Inspectors of Nuisances—William E. Marsden and C. R. Walsh
Salary as Inspectors, £160 and £150.

What is the Character of the Hospital Accommodation ?—For Small-pox : Farm House, 2 beds. For other Infectious Diseases : For Scarlet Fever and Typhoid Fever, 1 Block, 20 beds, good ; 1 block, 8 beds, very good.

Is it Joint or otherwise ?—Our own.

No. of Beds available—For Small-Pox, 2 ; For other Infectious Diseases, 28 beds.

Deaths in Hospital of patients removed from your District ?—1, Scarlet Fever.

How is Disinfection carried out ?—No. of Houses Disinfected ?—226. Method Sulphur and Formalin. Are Houses disinfected after Phthisis ?—Yes. Apparatus used for Clothing, Bedding, etc. (steam or otherwise) ?—Washington, Lyons Superheated Steam Disinfector. Where is apparatus situated ? Bull Hill Hospital (used for all purposes).

Are any Diseases not specificially mentioned in the Infectious Diseases Notification Act notifiable (for instance, Measles, Whooping Cough, Diarrhœa, Chicken Pox, &c.) ?—No.

Diseases specially prevalent ?—Measles. Period ?—December. Number of times School Closure adopted ?—Twice, St. John's Infant and Mixed Schools. For what Disease ?—Measles.

Number of Special Reports made under Act. XIX. (15 and 16) Sanitary Officers' Order, 1910 ?—None.

Bacteriological Examinations. Specimens examined : Blood, 6 ; Swabs, 12 ; Sputum, 118 ; Others, 3.

Arrangement (if any) made under the Diphtheria Anti-toxin Order, 1910 ?—None, Anti-toxin supplied at cost price.

"THE HOUSING OF THE WORKING CLASSES ACTS, 1890 to 1909."

Has your Authority determined the procedure to be adopted for the inspection of your District as required by Article 1 of the Regulations ?—Yes.

Has your Authority prepared, as required by Article 1 (3), a list of dwelling-houses, the early inspection of which is desirable ?—Yes.

Has your Authority designated an officer to undertake the special inspection of houses and to keep the records stipulated by Article 2. If so, what officer ?—Inspectors of Nuisances.

Have the necessary books, forms, etc. for keeping the required records been obtained ? Yes.

Action taken in 1915 :

Total No. of dwelling-houses inspected—3822.
No. of Dwelling-houses inspected under Sec. 17 of the Act of 1909 ?—25.
,, Dwelling-houses considered unfit for human habitation ?—9
,, Representations to Authority with a view to making Closing Order —9.
,, Closing Orders made ?—0.
,, Dwelling-houses in which defects were remedied without making Closing Orders ?—6.
,, Dwelling-houses put into a fit state of habitation after making Closing Orders ?—0.
,, Dwelling-houses demolished ?—0.

General character of defects found to exist ?—Insufficiently lighted, ventilated, damp walls, etc.

Is there a deficiency of housing accommodation ?—No.

Number of New Houses built during 1915—By and at the cost of the District Council ? None. By private enterprise ?—32.

Source of Water Supply ?—Upland Surface.

What is its condition ?—Good.

Possibilities of contamination ?—Not in vicinity of dwelling-houses.

Any insufficiency, and where ?—No.

Is Scavenging and Removal of House Refuse carried out satisfactorily for whole of District ?—Yes.

How performed (state whether by Sanitary Authority, Contract, or Occupiers of Houses) ?—Sanitary Authority.

How is the Refuse disposed of ?—Burnt in destructor.

Has a Destructor been provided ?—Yes, Meldrum's.

Sewage Disposal Works. Method of Treatment ?—Bacteriological.

What is the character of the Drainage System ?. Any developments during year ?—Combined System.

Areas, or Townships, without proper drainage system ?—None.

Action taken—Drain Testing, Flusing, &c. ?—Water, Smoke, Periodic Flushing.

Action taken with regard to Pollution of Streams ?—No Legal action taken.

Canal Boats : Number Inspected ?—None.

What is the condition of the Bakehouses ?—Fairly good.

What is the condition of the Slaughter Houses ?—Good. Has a Public Abattoir been provided ?—Yes.

What is the condition of the Lodging Houses ?—One Lodging House only. Are they registered ?—Municipal.

What is the Sanitary condition of the Schools ?—Good.

Dairies, Cowsheds, and Milkshops—Are they periodically inspected—Yes. What is their condition ?—Fairly good.

Have Regulations been made under the Order of the L.G.B. ?—Yes. Are they enforced ?—Yes.

Amount of air space in cubic feet required for each cow ?—600 c.f.

No. of Cowkeepers—No. on Register ?—129 ; No. of inspections during year ?—165

No. of Dairymen or Purveyors of Milk (other than cowkeepers) ? No. on register ?—66

Any arrangement for veterinary inspection of dairy cows ?—Veterinary Surgeon called in if occasion requires.

Inspection of Food—No. of Carcases and parts of Carcases condemned for tuberculosis ?—4 Beasts and 8 Swine.

Amount of Food, other than the above, condemned as unfit for human consumption ? 2 Sheep, 2 tons, 4 cwts, 2 qrs., 16 lbs. Offal, 2 Bags of Mussels and 40 lbs. of Sausages.

Department of Inspector of Nuisances ?—No. of Notices served ?—940 ; Nuisances remedied ?—1622 ; No. of Legal Proceedings taken and result ?—2 : 1, 5/- and costs ; 1, Order to Abate.

CLOSET ACCOMMODATION OF THE DISTRICT :—

No. of Privy Middens ?—None.
,, Pail Closets ?—1805.
,, Fresh Water Closets ?—6282.
,, Waste Water Closets ?—2489.
,, Privy Middens converted during 1915 ?—To W.C.'s, None. To Pails, &c., None.
,, Pail Closets converted to W.C.'s ?—873.
,, Waste Water Closets converted to W.C.'s ?—14.

Does the Council contribute towards the cost of conversion ?—Yes, of Pails to W.C.'s, half cost.

What kind of closet accommodation is being provided for new property ?—Fresh Water Closets.

SMOKE :—

No. of Observations ?—174.
,, Legal Proceedings taken and result ?—2 : 1, 5/- and costs ; 1, Order to Abate.

What is the time limit allowed for the emission of black smoke per hour ?—One, two or three boilers, 5 minutes per hour ; Four or more boilers, 7 minutes per hour.

HAS THE AUTHORITY ADOPTED :—

"The Infectious Disease (Prevention) Act, 1890 ?—Yes, except Sect. 5 to 11 inclusive, and section 15.

"The Public Health Acts Amendment Act, 1907" ?—Certain Sections

"The Public Health Acts Amendment Act, 1890" ?—Yes, except that relating to music and dancing.

Has a Health Visitor (whole or part time) been appointed ?—Yes, part time School Visitor.

Has any, and if so, what action been taken respecting Child Welfare Work ?—Mother's Club, Babies weighed, advice given.

Notable Sanitary Improvements during 1915—Conversion of Pails to Fresh Water Closets.

Chief Sanitary requirements of District—Modern Disinfector in a central situation.

Medical Inspection of Schools and School Children.

To the Chairman and Members of the Education Committee.

Ladies and Gentlemen,

I have pleasure in presenting you with a copy of my Annual Report on the work done during the year ending December 31st, 1915, in regard to the Examination of the School Children.

I am,
Your obedient Servant
F. G. HAWORTH,
Medical Officer to the Schools.

At the end of May Nurse Orpin, having asked for and secured your permission for 12 months leave of absence, went to Edinburgh to take up nursing in the Edinburgh Royal Infirmary, which has been transferred to the Military Authorities. At the end of this period it is to be presumed she will return to take up her duties in the examination of school children. In the meantime Miss Mycock, who was an applicant for the post when Miss Orpin was appointed, was asked if she were at liberty would she come as locum tenentes during Nurse Orpin's absence. To this Nurse Mycock agreed, and has been a most valuable servant in this respect since her arrival. In fact I cannot speak too highly of her work during her temporary occupancy.

SCHOOL BUILDINGS.

During the visits of the School Nurse and myself I have taken advantage of the opportunity to inspect the school buildings and the sanitary arrangements. Speaking generally sufficient attention is not paid by the teachers to the question of ventilation. During the interval of play-time and of the dinner hour all the windows should be opened as wide as possible to flood the rooms with a current of fresh air. No doubt in many cases it is due to want of thought. I beg to draw the attention of your committee to this matter.

During the year I had occasion to draw the attention of the Secretary of Education, Mr. W. Bretherick to the dirty condition of the Highfield Elementary School, in particular to the accumulations of dirt under the hot water pipes which go round the rooms, in the corners, underneath the mats and furniture, and to the very dirty state of the room downstairs in which is the heating apparatus, and to the steps leading thereto. Mr. Bretherick at once wrote embodying my complaint to the Management Committee. The caretaker was dismissed and another one appointed, with good results.

I also draw the attention of this Committee to the state of the conveniences at Lower Chapel School. Several doors are off their hinges, water accumulates in front of the closets. The system in vogue is the pail, due, I understand, to the distance the nearest sewer is from the closets. This question has been up before, and the late surveyor, Mr. Smith-Saville received instructions to present estimates of the cost of providing a new sewer. Since then Mr. Smith-Saville has died. The town has lost a most valuable servant, and the matter has fallen into abeyance.

I have had occasion in a previous report to comment on the method of cleaning the floors at St. James' Schools, the one affected there being by means of a fluid called "Florigene," which is applied to the boards. This, from its nature, causes the dust to adhere so that during sweeping operations very little dust is seen to arise. This is looked upon as an advantage, but in my opinion it results in a further and further accumulation of dirt on the floor, whilst, if the windows were opened during sweeping operations there would be a tendency for it to pass outside by way of the open windows, and thus be got rid of. The floors at this school look very dark—dirty and oily, very like the floor of a spinning room.

After each vacation the Inspectors visit and inspect all the school buildings and report thereon, and the Secretary of Education issues instructions for all floors, windows and furniture to be washed down.

Since the street in front of St. James' School has been paved the value of this as a sanitary measure has been proved over and over again, in the lessened amount of dirt which is carried into the schools on the children's footwear. The rule in regard to the daily flushing of latrines and urinals should be more rigidly carried out. This no doubt is a matter for the Management Committee.

VENTILATION.

During the periods of play and meal times spoken of, all the dividing partitions should be removed or closed up, so as to secure a free cross ventilation.

HEATING.

Is very well attended to, and the introduction of the temperature charts have been of great value, as they draw the attention of all those concerned to the importance of heating. Still there continues to be too much variation in this respect. This requires care and attention. When too cold the children cannot work because they have not the advantages of the teachers in being able to move about; when too hot it leads to somnolence.

CLEANLINESS.

Mention of this has been previously made. The following schools however require attention in detail :—

EARCROFT SCHOOL.

Boys. There are two closets. In the second one the flags need levelling, as water collects. The urinal floor requires repairing.

Girls. Four closets in good order. The girls' playground is only partly flagged. It would be better if this were done.

Boys playground is covered with loose ashes which tread in, especially on wet days.

The Ashes Tub is in too exposed a situation, accessible to the children. This should not be so.

ST. EDWARD'S SCHOOL.

The sanitary arrangements are excellent. The Boys' playground, at one time covered with ashphalt, has become rough and uneven.

HOLLINS GROVE SCHOOL.

The sanitary arrangements are very good with the exception of the receptacles for ashes. The one under a flag cover should be more isolated so that the children cannot get to the contents. The other tub at the end of a passage past some closets, is without cover and too accessible. This should be walled in and a door provided so that it can be removed to be emptied. The opening through which the ashes are put into the tub requires a door.

INFECTIOUS AND CONTAGIOUS DISEASES.

Scarlet Fever, a periodic and seasonal disease was with us to the extent of 56 males and 74 females, making a total of 130 among children attending the elementary schools, particulars of which will be found in the table on page 5.

The schools were affected in the following order, with the numbers notified as follows :—Culvert 31, St. Cuthbert's 25, Hollins Grove 15, Blackburn Road 8, St. Edward's 7, St. James 6, Spring Bank 6, St. John's 5, Trinity 5, St. George's 5, Lower Chapel 4, Duckworth Street 3, St. Joseph's 3, Bolton Road 2, Highfield 2, Earcroft 1, St. Paul's 1, Sudell Road 1.

The distribution of these cases makes very pleasant reading. Culvert stood highest, although more or less isolated in position, on account of this pecularity and no doubt from its very old standing. This school draws its scholars from a wide area. The school buildings are somewhat limited in their accommodation, and this renders any attempt at preventing the disease spreading an extremely difficult one. The complaint then reached the district of Hollins Grove, affecting St. Cuthbert's school to the extent of 25 children. The nearest school is Hollins Grove, which contributed 15 cases, Blackburn Road following with 8 and St. Edwards with 7. No doubt these children attending the various schools in that district were affected by playing together outside the schools, although this complaint is very widely spread by infection contracted within the school premises.

Another interesting point in this connection is the varying age periods affected by this outbreak of Scarlet Fever. The most susceptible period is from 2 to 6 years of age.

At 10 years of age there were 18 cases, at 8 years there were 17 cases, at 4—15 cases, at 9—15 cases, at 6—14 cases, at 7—12 cases, at 12—12 cases, at 11—11 cases, at 5—10 cases, and at 3—5 cases. From 3 to 6 years of age there were 44 cases, from 7 to 10 years there were 62 cases, these being periods of four years each, from 11 years to 14 years there were 24 cases. It will be interesting to note if this complaint has a tendency to affect children of more mature years. It is within one's own memory that Pulmonary Consumption was most suceptible at 15 to 25 years of age. More people died during that period, whilst now the deaths were more numerous from 45 years to 65 years, showing a decided tendency for Consumption to become a disease of senile life rather than as formerly to affect those in the vigour of their manhood.

DIPHTHERIA.

There were 12 cases of this complaint notified of children attending schools in the town :—Culvert 7, Lower Chapel 1, St. George's 1, Highfield 2, Spring Bank 1.

At 3 years 1, 4 years 2, 5 years 4, 6 years 2, 7 years 1, 9 years 1, and 11 years 1. showing that the number increases from 3 years up to 5 years and then decreases; also that those under five years are subject to this complaint, and would probably have escaped if they had not been sent to school. There is no doubt that many mothers look upon the schools as nurseries, and make use of them as such, with the result that some children contract complaints which they otherwise would not.

Table showing the Schools attended by Children Notified to be suffering from Scarlet Fever during 1915.

	3		4		5		6		7		8		9		10		11		12		13		14		Total.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M	F.	M.	F.	M.	F.
St. Cuthbert's	2	2	...	2	...	3	1	1	1	1	1	...	4	1	2	1	1	1	1	...	...	...	...	...	13	12
St. John's	...	...	...	...	...	1	...	1	...	...	...	1	...	...	...	1	...	1	...	...	...	...	...	...	...	5
Earcroft	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Hollins Grove	...	...	1	...	...	1	1	2	...	2	1	2	2	1	...	1	...	...	...	1	...	...	...	...	5	10
Trinity	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	1	1	1	...	...	...	...	3	2
Culvert	...	...	1	4	1	1	1	3	2	1	...	3	...	2	2	2	4	...	...	3	...	1	...	...	11	20
St. Paul's	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
St, George's	1	...	1	...	1	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	5	...
Sudell Road	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Blackburn Rd.	...	...	1	...	...	...	1	1	1	...	...	...	...	1	...	1	1	1	...	...	...	...	...	...	4	4
Duckworth St.	...	...	...	1	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	1	2
Lower Chapel	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	3	1
Bolton Road	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Spring Bank	...	...	...	...	...	...	...	...	...	...	...	3	1	1	1	...	...	...	...	...	...	...	...	...	2	4
St. Edward's	...	...	...	1	...	...	...	1	...	...	1	...	...	...	3	...	...	1	...	...	...	...	...	...	4	3
St. Joseph's	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	2	1
Highfield	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
St. James'	...	...	...	1	...	...	...	...	...	1	...	1	...	1	...	...	...	...	1	1	...	...	...	...	1	5
	3	2	5	10	3	7	5	9	6	6	5	12	8	7	11	7	6	5	4	8	...	1	...	...	56	74
	5		15		10		14		12		17		15		18		11		12		1		...		130	

Table showing the Schools attended by Children notified to be suffering from Diphtheria during 1915.

	3		4		5		6		7		8		9		10		11		12		13		14		Total.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Spring Bank	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Culvert	...	...	1	...	2	1	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	1
Lower Chapel	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
St. George's	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Highfield	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	1	...	1	1	3	1	2	...	1	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	9	3

Table showing the cause of death of Children at School-age :—

Cause of Death.	3		4		5		6		7		8		9		10		11		12		Total.	
	M.	F.	M.	F.	M.	F.	M.	F	M	F	M	F	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Measles	2	2		1		1		1		1											2	6
Marasmus				1																	...	1
Croup				1																	...	1
Tubercular Peritonitis		1																			...	1
Diphtheria					1		1														2	...
Phthisis									1									1			1	1
Injuries (accidental)									1												1	...
Rheumatic Fever			1																		1	...
Infective Enteritis	1																				1	...
Scarlet Fever						1		1													...	2
Burns (accidental)		1																			...	1
Ulcerated Mouth and Stomach	1																				1	...
Diarrhœa	1																				1	...
Tubercular Mesenteric Glands		1																			...	1
Laryngitis					1					1											1	1
Whooping Cough		1																			...	1
Congenital Hydrocephalus	1																				1	...
Follicular Tonsilitis	1																				1	...
Appendicitis											1										1	...
Uncertified						1							1			1					1	2
Bright's Disease																			1		1	...
	7	6	1	3	2	3	1	2	2	2	1	...	1	...	...	1	...	1	1	...	16	18
	13		4		5		3		4		1		1		1		1		1		34	

The Table shows the diseases which proved fatal in the case of 34 school children who died during the year. Measles was responsible for 8 deaths, Diphtheria for 2, Consumption for 2, Scarlet Fever for 2, Laryngitis for 2, and the following diseases were the cause of a death in each case, Marasmus, Croup, Tubercular Peritonitis Injuries, Rheumatic Fever, Infectious Enteritis, Burns, Diarrhœa, Tubercular Mesinteric Glands, Whooping Cough, Congenital Hydrocephalus, Follicular Tonsillitis, Appendicitis, Bright's Disease, and uncertified 3.

It will be noticed that Consumption caused 2 deaths, which out of 6 or 7 thousand children attending our elementary schools shows a very low rate indeed. The wonder is that there are not more children suffer from consumption, seeing the infectious nature. Doubtless the little ones are protected by constitutional resistence. The greater tendency of children to die from tubercular disease of the alimentary organs and the glands thereto adjacent is due to the infection entering by that passage in the first instance by means of food, probably milk from tubercular animals.

During the winter 1915 I gave a course of four lectures dealing with Consumption and its prevention. They were all well attended by extremely attentive audiences, and as they were of an educational character the Health Committee defrayed the cost of printing and advertising.

PHYSICAL CONDITION.

The accompanying tables show the heights and weights at all ages comparing them with the whole population at similar ages, the questions at issue, and suggested by these figures are the influence school life has on growth, and in particular the character of the buildings in regard to lighting and ventilation. Also what effect has the half-time system in aiding or retarding development. In my opinion the age for children commencing work in the mills as half-timers should be advanced, the extra time gained in the schools would more than counteract any loss to the parents. Children who go to work at six o'clock in the morning and to school in the afternoon are very tired by the unusual labour, the result being they go to sleep over their lessons, and the half-day is wasted from an educational point of view; and on the other hand work in the afternoon is over a longer period and of a more labourous character than is involved in school life, so that the children are too tired for even home lessons which the shortened school hours necessitate do not get done. I am convinced that if the age of work were deferred the increased education would be of great value to the children, and they would acquire manual dexterity for their work more quickly.

BOYS.

Height.

ABOVE the average are at ages 4, 5, 7, and 8 years.
BELOW ,, ,, ,, ,, 6, 9, 10, 11, 12, and 13.

Weight.

ABOVE ,, ,, ,, ,, 3, 6, and 8 years
BELOW ,, ,, ,, ,, 5, 9, 10, 11, 12, and 13 years.

GIRLS.

Height.

ABOVE the average are at ages 5, 7, and 9 years
BELOW ,, ,, ,, ,, 4, 6, 10, 11, 12, and 13 years.

Weight.

Above ,, ,, ,, ,,
Below ,, ,, ,, ,, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 years

The following Anthro-pometric Table shows the difference in percentages, the figures under Great Britain given 100 at each period, is followed in the next column for Darwen children at the same ages, and show the percentage above or below the normal as the case may be.

BOYS.

Height.

Above the average percentage at ages 4 and 8 years.
Below ,, ,, ,, ,, ,, 6, 9, 10, 11, 12 and 13 years.
Equal ,, ,, ,, ,, ,, 5 and 7 years.

Weight.

Above ,, ,, ,, ,, ,, 4, 6 and 8 years.
Below ,, ,, ,, ,, ,, 5, 9, 10, 11, 12, 13 years.
Equal ,, ,, ,, ,, ,, 7 years.

GIRLS.

Height.

Above ,, ,, ,, ,, ,, 5, 7 and 9 years.
Below ,, ,, ,, ,, ,, 4, 6, 10, 11, 12 and 13 years
Equal ,, ,, ,, ,, ,, 8 years.

Weight.

Above ,, ,, ,, ,, ,, None.
Below ,, ,, ,, ,, ,, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13.
Equal ,, ,, ,, ,, ,, None.

In the Table showing the heights of school children it is interesting to note that in the case of boys, up to the age of 10 years, they are taller than they were the previous year for the same ages. From ten to fourteen years they are slightly shorter.

The girls from four to five years are shorter, from five to eight years they are taller, from eight to ten they are shorter, ten to eleven years they are taller, and thence onwards up to fourteen they are again shorter, showing much greater variation than the boys do.

WEIGHTS.

The Boys from four years to five are appreciably heavier, from five years to six they are lighter, from six years to twelve they are heavier, and from twelve to fourteen are lighter.

The Girls from four years to seven are lighter than the year before, from seven to nine they are heavier, from nine to fourteen they are lighter. In 1914 the girls weighed at age period eleven to twelve years were only two, the average weight being 73.62 lbs., whilst last year the number weighed was 18, and the average weight was 63.28lbs., showing the fallacy of statistics from a few figures only.

MALES—HEIGHT.

Age last Birthday	4	5	6	7	8	9	10	11	12	13
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
Darwen	40.31	41.07	42.13	45.99	47.49	49.53	51.09	52.18	54.61	56.07
General Population Great Britain	38.46	41.03	44.00	45.97	47.05	49.70	51.84	53.50	54.99	56.91
Above Average	1.85	0.04	...	0.02	0.44	...	...	...	...	...
Below Average	...	...	1.87	...	...	0.17	0.75	1.32	0.38	0.84

MALES—WEIGHT.

Age last Birthday	4	5	6	7	8	9	10	11	12	13
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
Darwen	38.3	39.0	45.2	49.7	55.5	58.4	63.7	64.7	73.1	75.8
General Population Great Britain	37.3	39.9	44.4	49.7	54.9	60.4	67.5	72.0	76.7	82.6
Above Average	1.0	...	0.8	...	0.6	...	...	...	...	...
Below Average	...	0.9	...	...	...	2.0	3.8	7.3	3.6	6.8

FEMALES—HEIGHT.

Age last Birthday	4	5	6	7	8	9	10	11	12	13
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
Darwen	37.00	40.66	42.34	44.66	46.60	49.24	50.92	52.14	55.33	56.82
General Population Great Britain	38.26	40.55	42.88	44.45	46.60	48.73	51.05	53.10	55.66	57.77
Above Average	...	0.11	...	0.21	...	0.51	...	...	...	...
Below Average	1.26	...	0.54	...	...	...	0.13	0.96	0.33	0.85

FEMALES—WEIGHT.

Age last Birthday	4	5	6	7	8	9	10	11	12	13
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
Darwen	34.0	38.2	41.2	45.6	49.3	54.2	58.5	63.2	72.4	78.7
General Population Great Britain	36.1	39.2	41.7	47.5	52.1	55.5	62.0	68.1	76.4	87.2
Above Average	...	...	...	...	...	...	...	...	...	...
Below Average	2.1	1.0	0.5	1.9	2.8	1.3	3.5	4.9	4.0	8.5

The Anthro-pometric system, which shows the difference in percentage, is again given in table form.

	Males.				Females.			
	Heights.		Weights.		Heights.		Weights.	
	Great Britain.	Darwen	Great Britain.	Darwen	Great Britain.	Darwen	Great Britain.	Darwen
4	100	104.8	100	102.7	100	96.7	100	94.2
5	100	100.0	100	97.8	100	100.2	100	97.4
6	100	95.7	100	101.8	100	98.7	100	98.8
7	100	100.0	100	100.0	100	100.5	100	96.0
8	100	100.9	100	101.1	100	100.0	100	94.7
9	100	99.7	100	96.7	100	101.0	100	97.7
10	100	98.6	100	94.4	100	99.8	100	94.4
11	100	97.5	100	89.9	100	98.2	100	92.8
12	100	99.3	100	95.3	100	99.4	100	94.8
13	100	98.5	100	91.8	100	98.5	100	92.3
Total .	1000	995.0	1000	971.5	1000	993.0	1000	953.1
Avr'ge	100	99.5	100	97.1	100	99.3	100	95.3

Table showing Average Height of Boys and Girls.

	4 to 5 yrs	5 to 6 yrs	6 to 7 yrs	7 to 8 yrs	8 to 9 yrs	9 to 10 yrs	10 to 11 yrs	11 to 12 yrs	12 to 13 yrs	13 to 14 yrs
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
Males	40.31	41.07	42.13	45.99	47.49	49.53	51.09	52.18	54.61	56.07
Females ...	37.00	40.66	42.34	44.66	46.60	49.24	50.92	52.14	55.33	56.82

Table showing average Weight of Boys and Girls.

	4 to 5 yrs	5 to 6 yrs	6 to 7 yrs	7 to 8 yrs	8 to 9 yrs	9 to 10 yrs	10 to 11 yrs	11 to 12 yrs	12 to 13 yrs	13 to 14 yrs
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
Males	38.37	39.07	45.24	49.79	55.50	58.49	63.77	64.79	73.18	75.87
Females ...	34.00	38.26	41.21	45.65	49.37	54.20	58.50	63.28	72.40	78.78

	No. Reported.	Cured.	Improved.	Operation. to be done	Operation not necessary.	No Action.	Left the town.	Full Time.	Further Visits by S. N.	Re-inspections by M. O. H.	Treated at Clinic
Enlarged Tonsils	30	5	...	3	...	...	...	...	...	...	...
Adenoids......	14	3	2	3	5	1	2	8	14	14	...
Re-Inspected & reported on Enlarged Tonsils	10	...	...	...	...	...	...	...	...	...	...
,, Adenoids	14	3	2	5	6	2	1	6	...	...	...
Squint.........	16	...	...	...	...	...	...	...	...	...	16
& Def. Vision	227	...	...	...	...	...	...	...	...	...	227
Ear Disease .	...	...	...	...	...	...	...	...	...	...	...
Otorrhœa	14	2	...	4	...	...	...	...	...	...	6
Cancer.........	8	8			...	...	...	...	...	...	8
Skin Disease	...	...	...	...	...	...	...	...	...	...	...
Impetigo...	20	20	...	...	...	...	...	...	...	...	20
Psorcasis	2	1	...	...	...	...	...	...	...	...	1
Blepharitis	24	10	...	...	...	...	...	...	...	...	10
Eczema,	3	...	...	...	...	...	...	...	...	...	1
Heart Disease	3	...	No	Exe	rcises	...	...	...	...	...	...
Un-classified.	13	...	...	...	...	...	...	...	...	...	13
Dirty Heads.	306	48	94	...	...	...	...	...	147	...	48
Dental.........	64	64	...	...	...	...	...	...	...	...	64
											414

Total number of Cases Treated at School Clinic for the year 1915, 1,251.

The above Table shows the class of cases met with in the elementary schools. In the column of " Enlarged Tonsils and Adenoids," where it states an operation is not necessary." These children have been taken to their own doctor, who expressed his opinion in these words. The number is not a large one, and the question is one of opinion only. I stated in my report that the operation should be done, and for the sake of discipline some of these cases might be pressed forward, even to Court proceedings, as I am prepared to back up my diagnosis.

The total number of cases treated at the Clinic, viz., 1251, does not refer to separate cases, but to the number of dressings, etc., many of these having to attend a considerable time. Taking the average it works out that each case attends and is treated three times. Some only need to go once, others, as I have stated, many more times.

The value of the Dispensary, wrongly styled the School Clinic, is now indisputable. The children generally treated there, apart from eye and teeth cases, are of the usual kind found among school children, needing constant care and attention.

The mothers are usually instructed by the medical man in charge what to do and how to do it. A mother's sensitive nature against inflicting the slightest amount of pain, and a child's opposition to home interference have in the past interfered with any chance of success, with the result that these cases have become chronic and gone on for weeks and months, many remaining uncured at the end. With the introduction of this treatment at the Clinic, and Miss Mycock's persistent but kindly attentions, have brought about a wonderful amelioration of suffering and a general and wholesale cure. The mothers realise this and what is more they appreciate it to the full extent, so that now many mothers now apply to the Clynic to Miss Mycock for treatment for their children, or on seeing her in the street invite her to their houses to see the children.

89, Preston New Road,
Blackburn.

Dear Dr. Haworth,

I have much pleasure in submitting to your notice a short classified report of the eye cases treated by me during the year 1915. The refractive errors met with were as follows :—

Group A.	No. of Cases.
Hypermetropic Astigmatism	97
Hypermetropic	29
Myopia Astigmatism	20
Mixed Astigmatism	14
Myopia	13
	— Total 173

In addition to these refractive errors, which were nearly all treated by the ordering of glasses except where indicated otherwise, the following pathological conditions of the eye were also met with :—

Group B.	No. of Cases.
Convergent Strabismus	15
Mystagmus	1
Blepharitis	10
Recurrent Hordeolum (Stye)	1
Phtheiriasis Cileorum (Lice of Eyelashes)	1
Conjunctivitis (Bacillus Rock-weeks)	1
Conjunctivitis (Bacillus Morax)	2
Phlyctenular Ophthalmia	7
Interstitial Peratitis	1
Corneal Nebula	5

Lamellar Cataract	5
Divergent Strabismus with Hydrocephalus	1
Exophthalmos & Oxycephaly	1
Microphthalmos...	1
Coloboma of Iris & Chorioid (congenital)	1
Chorioiditis	1

— Total 54

In these latter cases (Group B.) advice was given to the parents, e.g., the question of operation in congenital cataract, or in cases like Blepharitis, etc, when the child was asked to attend at the Clinique daily, or as often as required, to receive the treatment as ordered by me and carried out by the School Nurse.

I have made out, and handed to the School Nurse, a small list of cases (the myopie and mixed astigmatic cases), classified according to their different schools, which ought to be seen by you or the School Nurse towards the latter end of next year, and, if there is any falling off of the visual acuity (reference being made to the card index for that purpose), or where any complaint is made by the child, parents or teacher about the patient's eye condition, the case ought to be referred to me, with a view to a change of glasses if necessary. This, of course, also refers to all the cases treated this year, but I have made a special note of cases where the myopic element is liable to increase and in which one almost expects a change of glasses to be necessary in twelve months time.

In conclusion, I am very much indebted to you and the School Nurse for your kindly co-operation in this, practically our first year of the clinique, and I hope all the parents will get over what a few of them think is unnecessary interference with their children's eyes.

Yours faithfully,

W. Barrie Brownlee, M.D., F.R.C.S.

Numbers of Scholars Inspected at each School during 1915 varies from 27 in Blacksnape and Sudell Road to 161 at St. Joseph's. The following Table shows the number examined in each school.

NUMBER OF SCHOLARS INSPECTED AT EACH SCHOOL DURING 1915.

	NUMBER INSPECTED.																									
	3		4		5		6		7		8		9		10		11		12		13		14		Totals.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Belgrave	..	..	..	..	..	...	..	..	..	...	4	1	2	2	...	1	...	1	11	7	..	1	..	..	17	3
B'burn Road	..	..	..	..	25	15	1	1	8	6	14	26	1	...	1	1	2	...	14	20	2	3	..	..	68	72
Blacksnape	..	..	..	..	7	2	...	2	...	1	4	5	..	..	...	..	..	..	2	2	...	1	1	..	14	13
Bolton Road	..	..	...	...	19	23	7	4	4	6	..	..	...	..	..	..	..	...	...	...	...	...	..	..	30	33
Central Coun.	..	...	...	...	15	12	2	1	10	1	32	18	1	...	...	...	..	..	..	..	..	..	..	..	60	32
Duckworth St.	..	..	..	..	17	16	3	3	...	3	19	25	3	2	2	2	1	3	10	13	..	3	..	..	55	70
Earcroft	..	..	..	..	9	6	1	3	..	2	9	8	2	..	..	..	1	1	2	2	...	3	..	..	24	25
Highfield	..	..	..	...	12	18	3	3	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	21
Sudell Road	..	..	..	..	..	..	..	..	4	2	4	7	3	1	..	..	..	..	2	3	..	..	1	..	14	13
Hollins Grove	..	..	..	..	13	17	1	1	2	4	20	25	..	2	1	3	3	2	5	7	1	1	...	..	46	62
Holy Trinity	..	...	..	...	7	7	4	4	2	5	17	24	7	4	3	1	9	4	14	20	1	1	..	1	64	71
Lower Chapel	..	..	1	1	20	16	4	2	..	1	26	14	...	..	...	..	...	...	9	5	2	1	..	..	62	40
St. Cuthberts'	..	..	..	..	20	23	3	7	...	1	21	21	3	5	1	...	...	3	19	14	1	3	..	..	68	77
St. George's	..	..	..	..	28	32	2	2	3	4	25	19	..	1	..	1	...	...	8	17	1	1	..	..	67	77
St. Edward's	..	..	1	1	5	2	5	..	1	2	21	16	..	1	..	..	...	..	6	10	1	8	..	1	40	41
St. James'	..	..	1	...	23	22	4	3	2	6	23	17	...	..	...	...	...	1	14	10	1	3	...	..	68	62
St. John's	..	..	..	..	12	13	..	1	3	3	23	29	1	..	1	..	..	1	9	13	3	3	..	..	52	63
Culvert	..	...	...	...	3	5	...	1	1	1	18	14	3	2	3	...	...	1	15	21	...	3	..	..	43	48
St. Joseph's	..	..	...	..	26	16	6	6	..	2	38	37	...	1	..	1	3	..	9	10	...	6	..	..	82	79
St. Paul's	..	..	..	...	3	13	2	3	1	1	20	19	..	...	...	...	...	...	3	8	4	...	..	..	33	44
Spring Bank	..	..	..	..	..	...	...	...	1	...	18	22	...	1	2	3	...	3	20	23	2	3	..	..	43	55
	..	..	3	2	264	258	48	47	42	51	356	347	26	22	14	13	19	20	172	205	19	44	2	2	965	1011
			5		522		95		93		703		48		27		39		377		63		4		1976	

TABLE II.—Return showing the Physical Condition of Children Inspected.

CONDITION.		ENTRANTS				LEAVERS.				INTERMEDIATE GROUP.				TOTAL.				SPECIAL CASES.			
		Boys	Girls	Total	Per cent.	Boys	Girls	Total	Per cent.	Boys	Girls	Total	Per cent.	Boys	Girls	Total	Per cent.	Boys	Girls	Total	Per cent
Total Inspected		315	307	622	..	193	251	444	..	354	349	703	..	862	907	1769	..	104	103	207	..
Clothing and Footgear.	Satisfactory.	303	301	604	97.0	192	251	443	99.8	346	347	693	98.5	841	899	1740	98.4	99	102	201	97.1
	Unsatisfactory	12	6	18	3.0	1	..	1	0.2	8	2	10	1.5	21	8	29	1.6	5	1	6	2.9
Footgear.	Satisfactory	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Unsatisfactory	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cleanliness of Head.	Clean	311	274	585	94.1	191	226	417	93.9	350	288	638	90.8	852	788	1640	92.7	99	81	180	87.0
	Nits only	..	15	15	2.4	..	19	19	4.3	3	46	49	7.0	3	80	83	4.7	2	12	14	6.7
	Pediculi	4	18	22	3.5	2	6	8	1.8	1	15	16	2.2	7	39	46	2.6	3	10	13	6.3
Cleanliness of of Body.	Clean	315	306	621	99.9	192	251	443	99.8	350	348	698	99.3	857	905	1762	99.6	104	103	207	100
	Dirty	..	1	1	0.1	1	..	1	0.2	4	1	5	0 7	5	2	7	0.4	..	..	...	...
	Pediculi Present	...	..	..	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
Nutrition.	Excellent	291	294	585	94.0	192	245	437	98.4	337	332	669	95.2	820	871	1691	95.6	96	99	195	94.0
	Normal	14	11	25	4.0	..	3	3	0.7	13	14	27	3.8	27	28	55	3.1	6	4	10	5.0
	Below Normal	10	2	12	2.0	1	3	4	0.9	4	3	7	1.0	15	8	23	1.3	2	0	2	1.0
	Bad	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nose and Throat.	No Defect	312	301	613	98.6	180	246	426	96.0	347	342	689	98.0	839	889	1728	98.7	101	99	200	96.6
	Mouth Breathers ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Tonsils enlarged slightly	3	6	9	1.4	5	4	9	2.0	2	6	8	1.1	10	16	26	1.5	3	1	4	2.0
	Tonsils much enlarged																				
	Adenoids, slight ..	...	..	..	...	8	1	9	2.0	5	1	6	0.9	13	2	15	0.8	..	3	3	1.4
	Adenoids, marked																				
External Eye Disease.	No Disease	309	300	609	97.9	193	247	440	99.1	345	340	685	97.5	847	887	1734	98.0	102	102	204	98.5
	Blepharitis	5	2	7	1.1	..	4	4	0.9	5	7	12	1.7	10	13	23	1.3	..	1	1	0.5
	Conjunctivitis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Corneal Opacities ..	..	..	..	..	..	..	..	...	..	1	1	0.1	..	1	1	0.1	..	..	..	..
	Other Disease	1	5	6	1.0	..	..	..	...	4	1	5	0.7	5	6	11	0.6	2	..	2	1.0

Ear Disease.	No Disease	315	306	621	99.9	193	250	443	99.8	352	349	701	99.8	860	905	1765	99.7	104	103	207	100
	Obstruction, R.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Obstruction, L.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Otorrhœa, R.	..	1	1	0.1	..	..	..	..	1	..	1	0.1	1	..	1	0.1	..	..	..	..
	Otorrhœa, L.	..	..	..	..	..	1	1	0.2	..	..	..	..	..	1	1	0.1	..	..	..	..
	Other Disease	..	..	..	..	..	..	..	..	1	..	1	0.1	1	1	2	0·1	..	..	..	..
Teeth.	Sound	64	60	124	20.0	34	52	86	19.4	105	82	187	26.6	203	194	397	22.4	25	31	56	27.1
	Less than four decayed	160	153	313	50.3	131	170	301	67.8	172	178	350	49.8	463	501	964	54.5	54	48	102	49.3
	Four or more decayed	91	94	185	29.7	28	29	57	12.8	77	89	166	23.6	196	212	408	23.1	25	24	49	23.6
	Sepsis‘	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Heart and Circulation.	No Disease	315	307	622	100	188	246	434	99.9	352	345	697	99.2	855	898	1753	99.1	103	103	206	99.5
	Organic Disease	..	..	..	..	..	1	1	0.2	..	1	1	0.1	..	2	2	0.1	..	..	..	..
	Functional Disease	..	..	..	..	4	2	6	1.3	..	2	2	0.3	4	4	8	0.4	1	..	1	0.5
	Anæmia	..	..	..	..	..	1	1	0.2	1	1	2	0.3	1	2	3	0.2	..	..	..	..
	Other Defect	..	..	..	..	1	1	2	0.4	1	..	1	0.1	2	1	3	0.2	..	..	..	..
Lungs.	No Disease	314	306	620	99.7	193	250	443	99.8	353	349	702	99.9	860	905	1765	99.7	104	102	206	99.5
	Chronic Bronchitis and Bronchial Catarrh	1	1	2	0.3	..	..	..	..	1	..	1	0.1	2	1	3	0.2	..	..	..	..
	Tuberculosis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Tuberculosis suspected	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	0.5
	Other Disease	..	..	..	..	..	1	1	0.2	..	..	..	..	..	1	1	0.1	..	..	..	..
Nervous System.	No Disease	315	307	622	100	193	250	443	99.8	354	349	703	100	862	906	1768	99.9	104	103	207	100
	Epilepsy (major or minor)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Chorea	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Other Disease	..	..	..	..	..	1	1	0.2	..	..	..	..	..	1	1	0.1	..	..	..	..
Skin.	No Disease	313	300	613	98.5	193	250	443	99.8	352	345	697	99.1	858	895	1753	99.1	102	102	204	98.5
	Ringworm, body Ringworm, head	..	..	..	..	..	..	..	..	..	2	2	0.3	..	2	2	0.1	1	..	1	0.5
	Impetigo	1	5	6	1.0	..	..	..	..	2	2	4	0.6	3	7	10	0.6	1	..	1	0.5
	Scabies	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Other Disease	1	2	3	0.5	..	1	1	0.2	..	..	..	..	1	3	4	0.2	..	1	1	0.5
Rickets.	No Disease	315	307	622	100	193	251	444	100	354	349	703	100	852	907	1769	100	104	103	207	100
	Slight and marked	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Deformities.	No Deformity	313	307	620	99.7	192	251	443	99.8	353	348	701	99.7	858	906	1764	99.7	102	103	205	99.0
	Deformity present	2	..	2	0.3	1	..	1	0.2	1	1	2	0.3	4	1	5	0.3	2	..	2	1.0
Tuberculosis Non-Pulmonary	No Disease	315	307	622	100	192	251	443	99.8	353	349	702	99.9	860	907	1768	99.8	104	103	207	100
	Glandular	..	..	...	..	..	..	..	..	1	..	1	0.1	1	..	1	0.1	..	..	..	..
	Bones and Joints	..	..	..	..	1	..	1	0.2	..	..	..	..	1	..	1	0.1	..	..	..	..
	Other Forms	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE II.—Continued.

CONDITION.		ENTRANTS				LEAVERS				INTERMEDIATE GROUP.				TOTAL				SPECIAL CASES.			
		Boys	Girls	Total	Per cent	Boys	Girls	Total	Per cent	Boys	Girls	Total	Per cent	Boys	Girls	Total	Per cent	Boys	Girls	Total	Per cent
Speech.	Not Defective	314	306	620	99.7	193	250	443	99.8	352	348	700	99.6	859	904	1763	99.6	104	103	207	100
	Defective Articulation ..	1	1	2	0.3	..	..	..	..	1	..	1	0.1	2	1	3	0.2	..	..	..	..
	Stammering	..	..	..	..	..	1	1	0.2	1	1	2	0.3	1	2	3	0.2	..	..	..	..
Mental Condition.	Normal	315	306	621	99.9	192	250	442	99.6	351	348	699	99.4	858	904	1762	99.6	104	103	207	100
	Dull or Backward ..	..	..	..	..	1	1	2	0.4	3	1	4	0.6	4	2	6	0.3	..	..	..	..
	Mentally Defective (all grades)	..	1	1	0.1	..	..	..	..	..	..	..	..	..	1	1	0.1	..	..	..	..
Vision.	6/6 each eye (normal vision)	..	..	..	..	99	118	217	53.3	165	160	325	53.2	264	278	542	53.2	49	35	84	50.9
	6/6 R.	..	..	..	..	107	128	235	57.7	181	179	360	58.9	288	307	595	58.5	56	39	95	57.6
	L.	..	..	..	..	111	124	235	57.7	185	165	350	57.3	296	289	585	57.6	55	39	94	56.9
	6/9 R.	..	..	..	..	49	41	88	21.6	90	45	135	22.1	137	86	223	21.9	18	20	38	23.0
	L.	..	..	..	..	46	48	94	23.1	90	49	139	22 8	136	97	233	22.9	16	21	37	22.5
	6/12 R.	..	..	..	..	6	14	20	4.9	7	17	24	3.9	13	31	44	4.3	6	8	14	8.5
	L.	..	..	..	..	6	11	17	4.2	5	28	33	5.4	11	39	50	4.9	9	7	16	9.7
	6/18 R.	..	..	..	..	13	21	34	8.5	19	34	53	8.7	32	55	87	8.5	6	8	14	8.5
	L.	..	..	..	..	10	20	30	7.4	22	31	53	8.7	32	51	83	8.1	5	7	12	7.3
	6/24 R.	..	..	..	..	12	8	20	4.9	12	17	29	4.7	24	25	49	4.8	1	2	3	1.8
	L.	..	..	..	..	13	8	21	5.1	10	12	22	3.6	23	20	43	4.2	2	1	3	1.8
	6/36 R.	..	..	..	..	1	7	8	1.9	5	2	7	1.2	6	9	15	1.5	..	..	..	..
	L.	..	..	..	..	2	8	10	2.5	2	8	10	1.6	4	16	20	1.9	..	1	1	0 6
	6/60 R.	..	..	..	..	2	..	2	0.5	2	1	3	0.5	4	1	5	0.5	..	1	1	0.6
	L.	..	..	..	..	..	..	..	..	1	1	2	0.3	1	1	2	0.2	..	1	1	0.6
	6/0 R.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	L.	..	..	..	..	..	..	..	..	1	1	2	0.3	1	1	2	0.2	..	1	1	0.6
Squint		...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hearing (Whisper)	Number Examined ..	..	..	..	..	179	242	421	..	287	355	642	..	466	597	1063	..	89	89	178	..
	20 feet each ear (normal hearing)	..	..	..	..	174	235	409	97.1	273	346	619	96.4	447	581	1028	96.6	84	85	169	94.9
	20 feet, R.	..	..	..	..	176	236	412	97.8	276	351	627	99.6	452	587	1039	97.7	84	86	170	95.5
	L.	..	..	..	..	175	239	414	98.3	273	348	621	96.8	448	587	1035	97.4	87	86	173	97.2
	15 feet, R.	..	..	..	..	..	2	2	0.5	4	1	5	0.8	4	3	7	0.7	3	..	3	1.7
	L.	..	..	..	..	..	2	2	0.5	4	3	7	1.1	4	5	9	0.8	1	2	3	1.7
	10 feet, R.	..	..	..	..	..	1	1	0.2	2	1	3	0.5	2	2	4	0.4	1	2	3	1.7
	L.	..	..	..	..	..	..	..	..	1	..	1	0.1	1	..	1	0.1	1	1	2	1.1
	5 feet, R.	..	..	..	..	3	3	6	1.5	5	2	7	1.1	8	5	13	1.2	1	1	2	1.1
	L.	..	..	..	..	4	1	5	1.2	9	4	13	2.0	13	5	18	1.7	..	..	..	..

TABLE III.

Numerical Return of all Exceptional Children in the Area.

			Boys	Girls	Total
Blind (including partially blind)		Attending Public Elementary Schools	...	...	...
		Attending Certified Schools for the Blind	...	1	1
		Not at School	...	...	...
Deaf and Dumb (including partially deaf).		Attending Public Elementary Schools	1	1	2
		Attending Certified Schools for the Deaf	2	2	4
		Not at School	...	...	...
Mentally Deficient	Feeble Minded.	Attending Public Elementary Schools	...	3	3
		Attending Certified Schools for Mentally Defective Children	...	...	...
		Not at School	2	...	2
	Imbeciles.	At School	...	...	...
		Not at School	...	...	...
	Idiots		...	...	...
Epileptics.		Attending Public Elementary Schools	3	1	4
		Attending Certified Schools for Epileptics	...	...	...
		Not at School	...	1	1
Physically Defective	Pulmonary Tuberculosis	Attending Public Elementary Schools	...	3	3
		Attending Certified Schools for Physically Defective Children	...	...	...
		Not at School	...	1	1
	Other Forms of Tuberculosis	Attending Public Elementary Schools	1	1	2
		Attending Certified Schools for Physically Defective Children	...	...	...
		Not at School	1	...	1
	Cripples other than Tubercular	Attending Public Elementary Schools	3	2	5
		Attending Certified Schools for Physically Defective Children	...	...	...
		Not at School	...	...	...
Dull or Backward.		Retarded 2 Years	5	3	8
		Retarded 3 Years	2	2	4
		Not Retarded	3	...	3

TABLE I.

Number of Children Inspected 1st January, 1915 to 31st December, 1915 :—

A.— " Code " Groups.

Age.	Entrants.						Leavers.					Grand Total
	3	4	5	6	Other Ages	Total	12	13	14	Other Ages	Total	
Boys	...	3	264	48	...	315	172	19	2	...	193	966
Girls	...	2	258	47	...	307	205	44	2	...	251	1010
Totals	...	5	522	95	...	622	377	63	4	...	444	1976

B.—Groups Other than " Code."

	Intermediate Group. 8	Special Cases.			
		7	9	10	11
Boys	354	45	26	14	19
Girls	349	48	22	13	20
Totals	703	93	48	27	39

The total number of entrants was 622 and the leavers was 444. The intermediate group numbered 703 and special cases 207, making a grand total of 1976 examined.

The Table shows the work done with the results and the comparison with the previous year.

The children are measured and weighed by the Head Master and Mistress, the cards, previous to our visit, having been sent to the school by the School Nurse. The eyes are examined by means of test cards, and all those with defective eyesight are instructed to attend at the School Clinique the following Monday morning to be further examined by Dr. Barrie Brownlee, who has succeeded to the practice of Dr. Scott-Heyliger. There has not been one single instance where the Ophthalmic Surgeon has not found it necessary to prescribe glasses for these children selected by us. The increasing number of children requiring spectacles over the estimated number is at present difficult to understand. When getting out my estimates for your consideration I went into the figures for Darwen, and also for other Lancashire towns, and that these are now being exceeded only shows the great care with which the work is being done.

The children are then examined in regard to the acuteness of hearing a whispered sentence at a distance of 20 feet, 15 feet, 10 feet, and 5 feet, as the case may be, the the child being required to repeat the sentence after me. The ears are tested separately at each distance, whilst the opposite ear is covered with the Nurse's hand. In cases of deafness I then examine the ears, and where wax is suspected or seen the child is instructed by a written card to have Olive Oil poured into the ears several times a day for several days, and at the end of that period to attend at the School Clinique about 9-30 a.m., where the Nurse syringes the ears, in nearly every case with good results. Should this fail the child is seen by Dr. Brownlee, who indicates the course of treatment.

The teeth are seen by me, and the number decayed is indicated on the card. More than this Mr. Bromley, the School Dentist, examines the children of a certain age in the schools, indicates those necessary to be treated by him at the Clinique, a note is sent to each child's parents asking for their permission to the treatment. Should this be granted these children are attended to on some appointed day at the Clinique, Miss Mycock being in attendance to give any assistance Mr. Bromley requires. I look upon these two branches of the work as being of the greatest importance, the results of which it is impossible to conceive.

The Throats are examined by me, in particular for the presence of Adenoids or Enlarged Tonsils, and many of these are operated upon in the Royal Infirmary, Blackburn.

There are certain cases however which escape treatment because of the stupidity of one or both parents. So far I do not know what we can do more. When the Nurse's eloquence fails to convince them, and threats of reporting to the Officer of the N.S.P.C.C. does not move them. There are however some children who escape by being taken to the family doctor who states that an operation is not required as it will come right in time. One can only hope so. In fact a few appear to improve with time, many do not, and even with some improvement this is no argument against an operation, nor against waiting, because in the meantime owing to the defect many bad habits are in process of formation which are never broken off. This is a point not sufficiently recognised by some medical men. The Lungs and Heart are carefully examined, and proper instructions are given where necessary, as for instance in the case of Heart Disease the parents and teachers are informed that the heart is weak, and cautioned against the danger of permitting violent exercise.

Minor ailments are treated by the Nurse under my supervision at the School Clinique daily or weekly as each needs with most excellent results. The great advantage of this over domiciliary treatment is the greater efficiency of the Nurse over the parents ; also the children will always permit a nurse to do what he or she will not allow a mother. I can assure you the work in regard to skin diseases—Nits, Lice, Disease of Eyelids, Accidents, etc., etc., etc., is progressing, and its value and results are incalculable.

I cannot speak too highly of the services of Miss Mycock in this direction. Many mornings she is unable to leave the Clinique until after 11 o'clock, and this naturally restricts our work in the School very much.

I cannot conclude this Report without referring to the Feeble-Minded Children. Last year I gave a list of nearly 30 of these, indicating in a general sense the condition of each one.

Steady progress is being made all over the world, and especially in Great Britain and the United States, with regard to the care of the mental defective. Much also is now being done for these in Canada. It is being recognised that leaving them without proper care or control wastes large sums of money, is dangerous to the public welfare, and leaves them with free license to progagate their own species.

There are many evidences of an earnest desire in the community to see a wise and humane policy framed and adopted which shall be conservative and prudent in regard to expenditure, but preventive, progressive and educational rather than penal or merely custodial in character. In the organisation and financial conduct of this policy it is necessary that municipal authorities as well as benevolent and charitably disposed citizens should all fully co-operate with the

Government, and it is on these grounds I bring this part of my report to your notice.

The Board of Control, appointed under the Mental Deficiency Act of 1913, realised from the beginning of their labours how much would depend upon uniting the efforts of all voluntary associations and workers and securing the closest co-operation between all the statutory authorities and those who had already carried on work for mental defectives, in many cases with energy and success. Sir Wm. Byrne, the Chairman of the Board, was successful in obtaining a conference in October 1913, called by the National Association for the Feeble-Minded, at which all the Voluntary Societies, Homes and Institutions for Defectives were represented, and a provisional council was formed.

The objects of the Central Association thus formed are :—

1. To assist in the formation of local associations.
2. To further co-operation between the statutory authorities and the voluntary societies, which have done and are still actively doing such good work on behalf of the mentally defective.
3. To assist in the consideration of questions touching more than one area.
4. To deal with the question of finding and training attendants and officers of institutions for defectives, and possibly to issue certificates.
5. To act as a clearing house for cases, and to undertake to place cases leaving institutions, etc., in touch with a local association, or a society willing to undertake their supervision.
6. To co-ordinate the work of homes and institutions, and of local associations.
7. To deal with questions affecting the welfare of defectives as a whole.

The Mental Deficiency Act authorises grants in aid of the Central Association on certain conditions being fulfilled.

THE COST OF CARING FOR MENTAL DEFECTIVES.

Under the present system this must be enormous, and without the qualifying advantage of a return. They must be fed, clothed, and housed, with a lessening of the mental power the physical craving and desires will increase. They are gradually being spoilt because to train them or keep disciplinary control is not easy. Their passions not under control and parents are defied, with the result when young they run wild, appetites become enormous and must be satisfied, clothing will last practically no time because it is ill used. Any attempt to educate them in the ordinary sense is futile, the brain capacity will not receive education, and it is a waste of money to keep them at school, and above all, they must be under efficient control if only to stop the growth of these taking place by natural increment. To form a basis of calculation I will take the figures of Ontario, Canada, these being the only ones within reach.

The population of Ontario is about 2,500,000. The number of mental defectives is about two to three per thousand, or say 5,000 to 7,500.

It is probable that in addition to over 800 cared for in the Orillia Hospital for the feeble minded about 1,700 are in Refuges, Gaols, Orphanages, Industrial Schools, and other institutions where they are cared for temporarily at a greater cost and not cared for permanently at all, Finally, over 2,500 are without any institutional care, and the cost of this, though not so easily computed, is much greater still, as it is the most expensive way of all. If for no other reason than the financial one some scheme is very advisable.

Cost on Farm Colonies is estimated at from 6s. to 10s. each per week.

At Darenth Industrial Colony, Dartford, where there are over 2,000 inmates in different grades of feeble mindedness, the following estimates have been made.

Forty-five feeble-minded women can do the laundry work which 20 normal women (good laundry workers) can do. Taking a rough average of all kinds of occupations four feeble-minded persons can do the work of one normal person. If good results must be secured each person must be carefully watched and examined to find out his special qualification and what work he can do best.

A mentally defective below the mental age of 3 years is not capable of doing any work.

Mr. Bickmore, of Darenth Colony, rightly disapproves of going on teaching kinder garten methods and games to the feeble minded year in and year out. Let them make something they can see the use of, and that will be a source of revenue.

In 1905, 700 brushes and brooms were made ; in 1913, the output was 30,500.

On the women's side of the colony a nurse was taught by the men's instructor the wire drawn branch of brush making. She soon became competent to teach two of the female patients, who, in their turn, helped to teach others. There are now thirty girls continually employed in this branch of the trade.

The same method was used for starting the Book-Binding trade. A nurse was taught a branch of the trade, viz. sewing, also envelope, label, paper bag, and card board box making. Thirty-three girls are now continually employed in this industry.

More work being needed a branch of the upholstering trade was started, and seventeen girls are now employed.

The men's workshops becoming over-crowded it was decided to build new quarters at a cost of £3,000. On the completion of these the necessary equipment was made and fixed by the patients.

The women's workrooms rapidly became too limited and overcrowded. To meet the requirements it was decided to erect new workrooms at a cost of £6,000.

In the adult shops 830 patients (men and women) are employed.

In 1912—109,580 articles were made, and 90,096 were repaired, the value of this work being £11,962 16s. 3d., the whole of which are used in the Metropolitan Asylum Board's own institutions.

In the beginning of 1914 Mr. H. H. Wills, of Bristol, had offered a farm worth about £7,000, at Bishop's Lydeard, Near Taunton, for use as a farm colony for the feeble-minded of Bristol, on condition that the sum of £14,000 was raised by March 20th for the erection of suitable buildings.

Some provision must be made for the permanent care of the mental defectives, and this can only be secured by general action in which all should co-operate in preparing and putting into effect a policy which shall provide for the care and control of mental defectives, secure their happiness and their maintenance so far as possible by their own efforts, and at the same time safeguard their rights and interests of the community and the nation.

Such a policy must include provision for land, buildings, maintenance and management.

Possible sources of Revenue :—

1. The work done by the inmates. Such an institution should be self contained and self supporting as far as possible. doing its own work, making its own clothes, producing its own food, erecting its own buildings, making its own roads etc., etc.
2. The estates and resources of the inmates.
3. Fees paid by parents, guardians, relatives and friends.
4. Payments per capita per annum by the Municipality or Union to which the inmates belong.
5. Municipal grants.
6. Government grants.
7. Private subscriptions.

I have elaborated this report because I think this subject is of such immense importance. There can be no sound economy in further allowing these poor defectives to grow up without education and without training, to be cast upon the world to further increase the population of their kind. They must be cared for. trained to keep themselves and permantly cared for and isolated where they will be comfortable, and lead wholesome profitable lives.

PHYSICAL CULTURE.

In my opinion the time is opportune to commence the physical development of the bodies of the school children. In my visits to the schools it becomes more and more evident to me the value of such exercises and the need for deep breathing exercises, not only of such children as have been operated upon for enlarged tonsils and Adenoids, but of the whole of the school children, partly so that the defectives may not be missed, or that such exercises may not be left to the discretion of the of the parents. After the removal of Adenoids and Tonsils, such operation fails in its purpose by reason of the bad habits which have been formed, unless special exercises are taught.

If evening classes were formed for drill, military and otherwise, and the children compelled to attend during the first year once a week, and twice a week afterwards for two years, it would go far to develop the bodies of the children and to render them fit for service should the occasion arise for such in after years.

I close this report with my thanks to the Health Visitor, Miss Mycock, for her very valuable help since she came to Darwen. She has the useful gift of organisation whereby no time is lost in the work. Her manner with the children is kind yet firm, and their association both inside and outside the schools is of the most friendly nature.

Also to Dr. B. Brownlee, who is the essence of kindly diplomacy with the school children. I cannot express to you the pleasure this association has been to me.

And to Mr. Bromley who, I am sorry has not been able to devote the time necessary for the work needing attention.

To Mr. Bretherick for his generous support and valuable help in all my relations with the teachers and scholars.

I thank Mr. Littlecott for the care and accuracy with which he has dealt with the statistics.

Your obedient servant,

F. G. HAWORTH,

School Medical Officer.

REPORTS

OF THE

INSPECTORS OF NUISANCES,

FOR THE

Year ending, December 31st, 1915.

PUBLIC HEALTH OFFICE,
DARWEN,
March, 1916.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE.

Gentlemen,

I beg to submit my Annual Report of the work carried out by me in the Health Department of the Corporation, for the year ending December 31st, 1915.

The District covered by the Report are the Central, South-East and South-West Wards of the Borough.

	Area in Acres.	No. of Houses.
CENTRAL	110	1671
SOUTH-EAST	1900	1711
SOUTH-WEST	1908	1633

During the year 19 new houses were certified by the Borough Engineer, as follows :—

South-East Ward	16
South-West Ward	3

Number of W.C.'s to new Property	16
,, Baths to new property	9
,, Ashtubs added	11
,, Dust Bins added	16

INFECTIOUS DISEASES.

The number of notifiable diseases received during 1915 were 133 as compared with 157 in 1914, being a decrease of 24.

The Table gives a list of cases notified in the different Wards in 1915-4.

WARD	Scarlet Fever		Typhoid Fever		Diphtheria		Erysipelas		Puerperal Fever		Consumption	
	1915	1914	1915	1914	1915	1914	1915	1914	1915	1914	1915	1914
Central	6	23	0	1	2	3	4	4	1	1	14	12
South-East	29	32	1	3	2	8	2	7	1	0	9	9
South-West	30	27	2	2	8	2	4	5	0	0	18	16
	65	82	3	6	12	13	10	16	2	1	41	37

As soon as possible after receipt of a notification the premises are visited, a minute inspection is made and all particulars regarding the patient is obtained; verbal and printed instructions are given to prevent the spread of the disease. In Scarlet Fever cases the parents are recommended to allow the patients to be removed to Hospital. During 1915 I removed 27 cases to Bull Hill Hospital.

In all cases where children are attending school from an infected house, notices are at once sent to the Education Offices, to the Head Master of the School where the patient or other children in the house were attending, and also to the Public Library.

Immediately after the removal or recovery of each infectious case, all articles of bedding and clothing capable of being disinfected are conveyed to the Hospital, where they are subjected to Steam Disinfection, and the rooms at the houses are fumigated by means of Sulphur Candle or Formaldehyde.

157 houses were disinfected, and the following is a list of Bedding, etc. removed to Hospital during 1915-14-13.

	Beds	Bedding	Bolsters	Pillows	Quilts	Blankets	Sheets	Suits of Clothes	Carpets	Rugs	Cushions	Shawls	Sundries
Central	24	11	20	26	24	28	12	...	...	...	...	1	34
South-East...	43	7	42	51	27	49	11	...	3	6	6	2	50
South-West .	36	15	30	29	19	38	4	1	...	1	...	4	42
	103	33	92	106	70	115	27	1	3	7	6	7	136
Year 1914 ...	88	19	73	94	75	125	26	1	3	1	5	12	77
Year 1913 ...	45	18	30	49	22	21	9	0	6	8	2	6	15

NUISANCES.

During 1915 I received 225 verbal and written complaints as against 82 in the previous year, but the large increase was during the strike of workmen and the ashes and Nightsoil men. In September, 107 complaints of pails being full were received. The other complaints were chiefly in connection with choked drains, W.W. Closets, accummulation of refuse, etc. In all cases the nuisances were remedied as early as possible.

CONVERSION OF PAIL CLOSETS.

Owing to the War and the decision of the Committee not to serve notices to abolish pail closets, only about 450 notices were served, and the number converted being 408, viz. : Central Ward, 187 ; South-East, 110 ; South-West, 111.

The number of pail closets in existence which are within a reasonable distance from a sewer are 1468 :—Central Ward, 778 ; South-East Ward, 525 ; South-West Ward. 165.

103 pail closets exist in the outlaying districts, which cannot be converted owing to the great distance from a sewer.

The following Tables gives a list of inspections, notices served, and result :

SUMMARY OF WORK.

A. Number and Nature of Inspection Made.	No.	B. Number of Notices Served			C, Result of Service of Notice.		
		Legal.	Preliminary.	Nuisances Abated.	Remaining in hand.	Prosecutions.	
						Instituted.	Pending
Dwelling Houses including houses under Town Planning Act	1337	......	......	......	......	......	......
Factories and Workshops	201	5	4	5	......	......	......
Dairies and Cowsheds	105	17	14	10	7	......	......
Bakehouses	98	1	2	3	....	......	......
Infectious Diseases	133	......	......	......	......	......	......
Smoke Observations	86	2	......	......	......	1	......
NUISANCES.							
Defective Drains	38	17	35	36	2	......	......
,, Slop Gullies	56	5	54	50	6	......	......
,, Soilpipes, W.C.s etc.	9	3	9	9	....	......	......
,, Troughs and Downspouts	75	48	73	70	5	......	......
Insanitary Yards	15	2	15	12	3	......	......
Dirty Houses, etc	57	49	54	54	3	......	......
Dirty Closets	4	1	4	3	1	......	......
Accumulation of Refuse	26	14	26	24	2	......	......
Nuisance from Animals	2	1	2	2	......	......	......
Insanitary Ashpits	2	2	......	2	......	......	......
Ashtubs without Covers	28	2	28	17	11	......	......
Broken Sloppipes	41	8	37	36	5	......	......
Choked Waste Water Cls.	12	4	11	12	......	......	......
Insufficient Closet Accom.	2	2	......	2	......	......	......
Overcrowding	6	5	6	6	......	......	......
Dirty Bedding, etc	3	2	3	3	1	......	......
Convert Pail Closets	450	450	......	402	48	......	......
Miscellaneous	10	3	9	7	3	......	......
Broken Ashtubs	21	3	20	18	3	......	......
Converted W.W.C. to W.C.	10	......	......	......	......	......	......

FACTORY AND WORKSHOP ACT.

In 1915 I made 299 inspections to Factories and Workshops. 201 being to Workshops and 98 to Bakehouses. Places where out-work is carried on were also inspected and the premises were found to be kept in a fair sanitary condition. 3 complaints were received from H.M. Inspector of Factories, and in every case the nuisances were remedied.

The following gives the list of particulars in the form required by the L.G.B.

FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES AND HOME-WORKERS PREMISES.

I.—INSPECTION.

	Number of Inspections.	Number of Notices. Written.
Factories (including factory laundries)	42	3
Workshops (including workshop laundries)	142	9
Workplaces, Homeworkers premises)	3	...
Total	187	12

NUISANCES UNDER PUBLIC HEALTH.

II.—DEFECTS FOUND.

	Number of Defects. Found.	Number of Defects. Remedied.
Want of Cleanliness	1	1
Want of Ventilation	0	0
Overcrowding	0	0
Want of drainage to floors	0	0
Other Nuisances	7	7
Sanitary Accommodation Insufficient, unsuitable or Defective (not separate for sexes)	2	2
	10	10

III.—OTHER MATTERS.

Matters notified to H.M. Inspector of Factories	1

FAILURE TO AFFIX ABSTRACT OF THE FACTORY AND WORKSHOP ACT (S. 133).

Action taken in matters remediable under the Public Health Acts, but not under the Factory Act (S. 5) Reports of action taken sent sent to H.M. Inspectors	9
Underground Bakehouses (S. 101)	2

IV.—REGISTERED WORKSHOPS.

Workshops on Register (S. 131)	120
Workshop Laundries	3
Workshop Bakehouses	4
Other Workshops	60
Total on Register	187

DAIRIES, COWSHEDS AND MILKSHOPS ORDER.

During the year 105 inspections were made at the Farms and Dairies, and the farms were found to be kept in a fairly clean condition, speaking generally the arrangements for the drainage, lighting and ventilation are defective, the internal walls, floors, etc. are not finished to a smooth surface, consequently the maintenance of cleanliness is difficult. The following nuisances were remedied:—

Defective Roof of Shippon	1
Defective Drains	4
Insufficient Water Supply	1
Badly Constructed Gullies	3
Defective Flagging in Shippons	6
Defective Manure Pits	2
Insufficient Ventilation	2
To Limewash and Cleanse	9

BLACK SMOKE.

In 1915 I took 86 Smoke Observations, each of one hour's duration, and the average emission was $2\frac{3}{4}$ minutes per hour.

It has been necessary to serve legal notices in 2 cases, and take court proceedings n one case.

A list of observations, together with other information is appended.

MILL.	Date of Observation.	Black.		Mod.		Smoking.		Notice Served.	Boilers	Apparatus	Remarks
		Min.	Sec.	Min.	Sec.	Min.	Sec.				
Albert	Jan. 14...	3	0	17	45	39	15		2	Hand Fired.	
	July 7...	3	15	14	30	42	15				
	Oct. 26...	1	15	24	45	34	0				
Bowling Green	April 19...	3	0	19	30	37	30		3	Proctor's Stoker.	
	Aug. 23...	2	30	17	45	39	45				
	Dec. 17...	2	15	18	0	39	45				
Britannia	Jan. 14...	2	15	21	30	36	15		2	1 Bennis' Stoker 1 Hand.	
	June 23...	3	15	20	15	36	30				
	October 26...	2	30	26	45	30	45				
Culvert	May 17...	1	30	14	15	44	15		1	Hand.	
Cotton Hall	Feb. 16...	2	15	19	15	38	30		1	Bennis'	
	July 7...	2	15	12	45	45	0				
	Dec. 17...	3	15	21	15	35	30				
Darwen Spinning Balle Street	Feb. 16...	4	15	23	30	32	15		3	Hand.	
	July 8...	2	30	18	45	38	45				
Ellenshaw	May 18...	3	15	20	30	36	15		1	Hand.	
	Sept. 21...	3	15	15	45	41	0				
Greenfield (New)	April 19...	2	15	20	45	37	0		1	Proctor's	
	Sept. 20...	2	15	16	45	41	0				
Greenfield (Old)	March 22...	2	45	21	0	36	15		1	Proctor's	
	June 22...	3	0	21	15	35	45				
	October 20...	3	0	12	15	44	45				
Hampden	May 17...	2	30	17	30	40	0		1	Procter's Stoker	
	Sept. 20...	3	0	15	30	41	30				
Highfield	Jan. 14...	2	30	20	15	37	15		1	Hand	
	May 17...	4	15	19	30	36	15				
	Sept. 21...	3	0	18	30	38	30				
Hanover Street	Jan. 14...	2	0	19	30	38	30		2	1 Hand. 1 Bennis's	2 Firms use this chimny
	June 23...	3	0	14	30	42	30				
	Dec. 17...	2	30	15	15£	42	15				
Holme	Feby. 17...	2	0	18	15	39	45		1	Procter's	
	June 23...	3	15	17	30	39	15				
	July 6...	2	0	17	15	40	45				
	Dec. 16...	2	30	20	15	37	15				
Hope	March 23...	3	15	19	45	37	0		2	Hand	
	Dec. 16...	2	35	30	15	27	0				
India	Feby. 16...	3	30	20	15	36	15		4	Hand.	
	July 6...	1	45	16	30	41	15				
	August 24...	3	0	19	30	37	30				
Perseverance	March 23...	3	0	21	15	34	45		1	Hand fired	
	Dec. 17...	3	0	19	45	37	15				
Darwen Paper	Sept. 20...	15	0	15	0				8	Hodgkinsons	half-hour's observation
Marsh House	June 21...	1	30	19	15	39	15		1	Hand Fired	
No. 1 Spinning	March 24...	4	0	22	15	33	45		2	Whittaker's	
	August 23...	4	15	16	30	39	15				
	October 27...	8	15	33	15	18	30				

MILL.	Date of Observation.	Black.		Mod.		Not Smoking.		Notice Served.	Boilers	Apparatus	Remarks
		Min.	Sec.	Min.	Sec.	Min.	Sec.				
New Mill	April 20...	4	0	21	30	34	30		2	1 Bennis's Stoker 1 Hand Fired	
	August 25...	4	0	18	45	37	15				
	October 13...	3	45	17	15	39	0				
New Bridge	May 17...	2	15	16	45	41	0			1 Whittaker's	
	Sept. 20...	1	30	20	15	36	15				
Primrose	April 20...	1	45	17	30	40	45			1 Procter's	
	October 12...	1	45	15	45	42	30				
Progress	May 18...	2	0	17	30	40	30			1 Whittaker's	
	October 12...	1	45	17	45	40	30				
Rose	April 19...	2	30	16	15	41	15			1 Procter's	
	October 12...	2	0	20	15	37	45				
Springfield	March 24...	2	30	19	45	37	45			1 Hand Fired	
	June 22...	2	30	17	30	40	0				
	October 20...	3	30	0	9	47	30				
Spring Vale (Tall Chimney)	Sept. 20...			2	0	58	0		4	New Boilers being fixed.	
Sudell Side	July 7...	1	45	20	15	38	0			1 Procter's	
Starkie Street	May 18...	3	0	18	45	38	15			1 Hand Fired	
	Sept. 21...	2	45	20	15	37	0				
South Street	April 20...	3	15	21	0	35	45		2	1 Benniss's Stoker 1 Hand Fired	
	August 24...	3	30	20	15	36	15				
	October 21...	3	0	17	30	39	30				
Tackfield	Feby. 15...	3	0	17	30	29	30			1 Hand Fired	
	June 23...	3	30	20	45	35	45				
	October 12...	2	45	19	15	38	0				
Two Gates	Feby. 16...	3	15	19	30	37	15			1 Procter's Stoker	
	Dec. 17...	2	45	18	0	39	15				
Vale Brook	Jan. 14...	2	15	21	0	36	45			1 Procter's	
	August 23...	2	30	15	45	41	45				
Whitehall	Feby. 15...	2	0	20	15	37	45			1 Bennis's Stoker	
	April 19...	1	30	15	45	42	45				
	Sept. 20...	1	45	17	15	41	0				
Waterfield	May 17...	3	30	15	15	41	15			1 Grimshaw's Stoker	
	October 20...	1	15	12	0	46	45				
South End	March 22...	2	30	18	45	38	45			1 Procter's	
	June 22...	2	30	18	45	38	45				
	October 12...	2	0	18	30	39	30				
	October 30...		30	10	15	49	15				
Premier	March 23...	4	15	19	30	36	15			1 Hand	
	July 8...	3	30	20	15	36	15				
	Decem. 16...	4	0	20	30	35	30				

HACKNEY CARRIAGE DEPT.

As Hackney Carriage Inspector for the Borough I have issued the following Licenses during 1915 :—

Tramway Carriage Licenses	10
Tram Car Drivers Licenses	48
Tram Car Conductors Licenses	40
Tram Car Drivers Badges issued	13
Tram Car Conductors Badges issued	26

ELEMENTARY SCHOOLS.

The whole of the Schools were periodically inspected by me, and reports on the sanitary condition were submitted to the Health Committee, and also to the Education Authority.

CARAVANS.

The Caravans which occasionally settle on the Market Ground are always thoroughly inspected, and are generally found to be in a clean condition.

INSPECTION OF FOOD.

The premises where food is prepared for consumption are periodically inspected, and every precaution taken to see that only food in a good and wholesome condition is exposed for sale.

The fish and fruit stalls connected with the wholesale and open market are continually under observation, as well as the Fish Hawkers' Carts and Butchers' Vans.

I have condemned 40lbs. of Sausages and 2 Bags of Mussels as being unfit for food.

Periodical visits are made to the Railway Station to inspect meat imported from various places.

Supplementary Reports on matters requiring attention are submitted to the Health Committee every month along with recommendations for the service of legal notices for nuisances, etc. under the Public Health Act.

I am, Gentlemen,
Your Obedient Servant,
WILLIAM E. MARSDEN.

SANITARY OFFICES,

February, 1916.

Northern District.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE.

GENTLEMEN,

I beg to submit a Report to you of the work carried out in the District during the year ending December 31st, 1915, as required by order of the Local Government Board, Sub-clause (16). The District is comprised of North-East, North-West, and West-Central Wards.

During the year 23 new houses have been certified by the Surveyor's Department, 18 of these being situated in North-East Ward, and 5 in North-West Ward.

The Table gives the total number of houses to January, 1916.

West-Central Ward	947
North-East Ward	2325
North-West Ward	1940
Total	5212

The Population in the Northern District of the Borough, according to the 1911 Census returns, was 20,183, the estimated Population in middle of 1915 was 19,801. The decrease is accounted for by the numbers of men who have either joined the colours or are employed in munition work in other towns.

The average number of persons per house according to the returns at Census, 1911, was about 4.17 persons.

INFECTIOUS DISEASES NOTIFIED.

WARD	Scarlet Fever		Typhoid Fever		Diphtheria		Erysipelas		Cerebro Spinal Meningitis		Consumption		Opthalmia Neonatorum		Total	
	1914	1915	1914	1915	1914	1915	1914	1915	1914	1915	1914	1915	1914	1915	1914	1915
West-Central	27	7	0	1	1	1	2	2	0	1	6	11	0	0	36	23
North-East	51	48	2	1	3	2	4	4	0	0	22	17	1	2	83	74
North-West	46	35	2	1	1	1	5	1	0	0	22	15	2	1	78	54
Total	124	90	4	3	5	4	11	7	0	1	50	43	3	3	197	151

Immediately upon receipt of notification of Infectious Diseases I visited the houses and ascertained if the patients were properly isolated. I also made a thorough examination of the premises, any defects discovered in the drainage or sanitary arrangements I caused to be remedied as quickly as possible.

SCARLET FEVER.

During the year under review, 90 cases were reported, as against 124 in the previous year, and 17 in 1913. Owing to lack of bedroom accommodation and other reasons, 51 of the patients, or 56 per cent. of the cases reported were removed as quickly as possible to the Fever Hospital at Bull Hill. 38 were taken from North-East Ward, 10 from North-East Ward and 3 West-Central Ward. This procedure had the effect of reducing the number of centres of inspection, and certainly helped to prevent the spreading of the disease.

there were 7 houses with 2 cases
,, ,, 2 ,, ,, 3 ,,
,, ,, 66 ,, ,, 1 case only.

Immediately upon notification all that could possibly be done in the way of improved isolation, etc. was effected, and the houses were kept under supervision until they were declared free from infection.

TYPHOID FEVER.

There were 3 cases reported. A sanitary pail with a tight lid is sent to each house immediately upon receipt of notification. The nurse is instructed to place all discharges from the patient into the pail, which is removed every night and a clean one is left in its place ; the contents of each pail are cremated on the destructor fires.

OTHER INFECTIOUS DISEASES REPORTED.

Diphtheria, 4 ; Erysipelas, 7 ; Ophthalmia Neonatorum, 3 ; Cerebro-Spinal Meningitis, 1 ; Consumption, 43.

At the termination of each case of infectious disease, the rooms were thoroughly cleansed and disinfected, and the bedding, &c. conveyed to Bull Hill Hospital and disinfected in the super-heated Steam Disinfector.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

There were 43 cases reported in my district.

Acting under instructions received from the Medical Officer of Health, I have visited each house in which a case of Consumption has occurred. Information in detail was obtained respecting each patient, and all possible precautions were taken to prevent the spreading of the disease, and in many instances printed instructions were also given. Where a patient was sent to a Sanatorium, removed, or died, the house and bedding was disinfected.

During the year 97 loads of Bedding, &c. were disinfected, as compared with 98 loads in 1914 and 54 loads in 1913. The following list gives the number and kind of articles treated :—

	Beds	Mattresses	Bolsters	Pillows	Quilts	Blankets	Sheets	Suits of Clothes	Carpets	Rugs	Curtains	Cushions	Shawls	Sundries	TOTAL
1909	87	38	67	106	72	95	37	3	8	4	10	11	13	315	866
1910	130	40	99	137	164	198	67	3	13	13	4	9	17	334	1228
1911	63	25	45	65	42	60	20	2	4	3	2	6	7	208	552
1912	31	21	22	39	25	22	9	3	1	11	2	7	9	57	259
1913	58	19	43	64	42	55	24	2	7	7	0	9	1	80	411
1914	110	25	91	108	124	166	46	3	2	5	0	12	14	129	835
1915	113	30	80	122	117	150	38	2	8	3	3	3	11	151	831

In accordance with your instructions and the general order of the Local Government Board I have endeavoured, by systematic inspection, to keep myself informed in respect of any Nuisance existing in the District, as the following summary will show :—

SUMMARY OF NUISANCES DEALT WITH IN THE DISTRICT.

New Drains Constructed	15
Defective Drains Repaired and Relaid	77
Waste Pipes Trapped and Disconnected from Drains	2
Defective Soil Pipes Repaired	2
Defective Water Closets Repaired	20
Defective Roofage, Downspouts and Easing Troughs Repaired	108
Insanitary Yards Flagged and Repaved	7
Dirty Houses and Premises Limewashed	28
Houses Insufficiently Ventilated and Overcrowded	11
Filthy Closets Limewashed and Cleansed	17
Insufficient or Insanitary Closet Accommodation	465
Accumulations of Refuse Removed	30
Nuisances arising from the Keeping of Animals	1
Choked Waste Water Closets Cleansed and Repaired	45
Insanitary Manure Pits	34
Ashtubs provided with covers	8
Street Pavement in Defective Condition	5

Broken Slop Pipes Repaired	19
Dangerous Buildings Repaired or Rebuilt	20
Broken Ashtubs Repaired	6
Loads of Bedding Disinfected	97
Rooms Disinfected	136
Defective Floors in Houses	2
Broken Closet Receptacle Doors Replaced	2
Defective Water Pipes	3
Factory Chimney Emitting Black Smoke beyond the Time Limit	3
Choked Sewer	21
Nuisances of a Miscellaneous Character	2

SUMMARY OF WORK DONE IN THE DISTRICT.

Total Number of Nuisances Discovered in District	593
Letters Written Respecting Nuisances and Pail Closets	590
Preliminary Notices Served Respecting Nuisances	290
Legal Notices Served Respecting Nuisances	314
Number of Re-Inspections	2373
Number of Nuisances Abated (including outstanding Nuisances Discovered in 1912	869
Number of Houses and Premises Inspected	2485
Number of Inspections of Refuse Tips	73
Number of Inspections of Schools and Public Buildings	142
Complaints, Received and Investigated	151
Number of Dains, Water Closets, &c. tested	36
Number of Smoke Observations taken	88
Number of Inspections of Factories and Workshops	161
,, ,, ,, ,, Lodging Houses	57
,, ,, ,, ,, Bakehouses	102

COMPLAINTS.

During the year under review, 151 complaints (written and verbal) were received from residents in the district; these were enquired into as speedily as possible and remedied. A large number of the complaints referred to closet pails and ashtubs being full owing to the men being on strike during September. Happily the men very soon resumed work and there was no further cause for complaint.

DIRTY AND INSANITARY HOUSES.

Twenty-eight houses were found to be in a dirty condition requiring whitewashing and cleansing. In some cases it was necessary to serve legal notices under Sect. 46 P. H. Act, 1875 the work was ultimately done to my satisfaction.

Six houses were found in an exceedingly filthy condition, the bedding also was dirty and did not appear to have been washed for some time. I cautioned the occupiers and ultimately reported each case to the Committee. Legal notices were ordered to be served upon the occupiers of the houses with the proviso that legal proceedings were to be instituted in the event of non-compliance with the requirements of the notices in the time stated therein. This procedure had the desired effect. However, frequent visits are necessary to houses of this kind as the nuisance is so likely to recur. The Medical Officer of Health has accompanied me to inspect dirty houses.

HOUSING AND TOWN PLANNING ACT, 1909.

HOUSING (INSPECTION OF DISTRICT) REGULATIONS, 1910.

During the year 25 houses were inspected, and representations were made to the Committee in respect of 9 houses which were badly lighted and ventilated. In six of the houses the defects were remedied, the owner of the remaining three promised to have the work done as soon as possible.

THE FOLLOWING LIST SHOWS THE TOTAL AMOUNT OF WORK DONE UNDER THE ACT.

Total number of houses now on black list (to be inspected regularly)	134
,, ,, closed	7
,, ,, closed and demolished	11
,, ,, in which new windows made to open have been fixed	33
,, ,, in which back doors have been fixed	3
,, ,, the drains of which have been reconstructed	40
,, ,, on black list the closets of which have been converted to the water carriage system	126
,, ,, in Northern District without back doors	55
,, ,, which are back to back	55

DAIRIES, COWSHEDS AND MILKSHOPS.

There are 36 farms with 67 shippons in the Northern District. No dairy cows have been kept during the year at Greenlands, and Sniddle Hill Farms, and a few of the farms are used chiefly for the rearing of young stock. About 500 cows are stalled in the shippons in addition to young stock and oxen. Many visits were paid during the year and improvements were carried out under the Dairies, Cowsheds and Milkshops Regulations.

Lighting and Ventilation of Shippons Improved	5
Shippon Pavement Relaid or Repaired	5
Drains Reconstructed	1
Farm Yard Pavement Relaid	1

Defective Drains Repaired	1
Dirty Shippons and Dairies Limewashed	7
Repairs to Roofage of Shippons	1
Easing Troughs and Downspouts Repaired and Fixed	1

I have continued to watch carefully the water supplies at the various farms.

Copies of the Dairies, Cowsheds, and Milkshops Regulations have again been supplied to each Cowkeeper.

BLACK SMOKE NUISANCE.

The nuisance arising from the emission of Black Smoke from factory chimneys has again received my attention. 88 observations were taken, each of one hour's duration. The following is the time limit.

One, two or three boilers, 5 minutes black smoke per hour.

Four, or more boilers 7 ,, ,, ,, ,, ,,

Black Smoke was emitted in excess of the time limit from 3 chimneys on four occasions one firm was prosecuted, and an order to abate the nuisance was obtained.

The Analysis of the observations shows an average emission of black smoke of 2.6 minutes per hour. In 1914 the average was 2.08, 1913 was 2.11, 1912 was 1.91, 1911 was 2.22, 1910 was 2.12, 1909, 2.43, 1908, 2.18, 1907, 2.15.

A great many repairs and improvements to boilers have been carried out during the year.

At 15 of the mills the boilers are hand fired ;
At 30 of the mills Mechaniacl Stokers of various kinds are in use, and there are 68 boilers in use at the respective mills, etc.

SCHOOLS.

During the year I have paid many visits to the 13 schools situated in my district, particularly during each of the vacations, viz. : Easter, Midsummer, and Christmas, to ascertain if the cleansing was being done in accordance with your requirements as issued prior to each vacation in the various School Correspondents by Mr. Bretherick, Secretary of Education.

The Schools, with one exception, were thoroughly cleansed, the walls swept down, all wood work and desks washed and the floors scrubbed with hot water and soap. Work requiring to be done has already been mentioned in the School Report by the Medical Officer.

TRIPERIES.

The waste material from these works is removed daily and cremated at the destructor, and great care is exercised to avoid effluvia nuisances. I visit the works as often as possible. There is one gut scraper in the town and his workshop, which is well kept, is situated at the Public Slaughter Houses.

FACTORIES AND WORKSHOPS.

I.—INSPECTION.

Premises.	Number of Inspections.	Number of Written Notices
Factories	77	8
Workshops	172	4
Workplaces	14	0
Total	263	12

NUISANCES UNDER PUBLIC HEALTH ACTS,

II.—DEFECTS FOUND.

	Number of Defects. Found.	Number of Defects. Remedied.
Want of Cleanliness	4	4
Want of Ventilation	1	1
Overcrowding	0	0
Want of Drainage of Floors	0	0
Other Nuisances	3	3
Sanitary Accommodation, unsuitable or defective (not separate for sexes)	4	4
Total	12	12

III.—OTHER MATTERS.

Matters Notified to H.M. Inspector of Factories	0
Action taken in matters referred by H.M. Inspector, as remediable under Public Health Acts (Notified by H.M. Inspector)	3
Not under Factory and Workshop Acts (Reports of Action sent to H.M. Inspector	0
Others	1
Certified Underground Bakehouses in use at end of year	2

IV.—REGISTERED FACTORIES AND WORKSHOPS.

	Number.
Textile Factories	32
Non-Textile Factories	36
Factory Workshops	46
Workshops	180
Workplaces	17
Total	311

FOOD INSPECTION.

I have continued to keep a sharp outlook over the various articles of food offered for sale for human consumption in the district and have inspected the hawkers carts. I have had no cause for complaint.

MODEL LODGING HOUSE.

Since August, 1914 there has been a reduction in the number of lodgers owing to many of the reservists and other men lodgers joining the Army. The cubicles, walls, beds, etc. have been disinfected when necessary. I have visited the house frequently during the day time and often about midnight when I have checked the books. On each occasion everything has been in order.

This is the only common lodging house in the district, a distinct advantage from a health point of view, as lodgers are brought together under one roof, and, therefore, more directly under our supervision.

The following Table shows the average number of occupants for each month during the last eleven years.—

	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Jan.	62.8	75.1	80.5	77.2	76.0	70.2	75.2	72.1	111.3	121.0	84.6
Feb.	65.2	77.2	81.2	87.9	74.9	76.2	84.1	77.1	125.2	126.6	86.9
March	70.1	73.8	93.2	87.2	73.2	70.2	80.4	95.3	127.2	125.6	85.5
April	80.2	81.1	95.1	88.2	79.5	79.2	86.5	102.6	127.4	129.4	109.2
May	79.2	84.2	86.1	90.2	83.2	79.2	78.0	96.0	126.2	127.2	88.2
June	75.1	96.2	82.2	93.2	79.2	78.1	71.5	86.1	131.8	122.3	84.1
July	64.4	80.3	84.3	85.9	84.1	78.7	69.2	77.1	130.1	124.1	75.7
August	70.2	60.2	86.1	80.5	81.9	72.1	70.2	91.5	132.9	108.1	73.2
Sept.	69.1	72.1	97.2	74.7	87.0	70.2	79.2	104.2	123.1	91.1	66.1
Octr.	69.1	81.1	90.2	76.9	74.2	72.6	82.1	113.5	128.1	94.2	58.1
Nov.	87.1	81.4	92.2	72.1	74.1	79.6	79.1	109.1	124.2	87.2	61.2
Dec.	74.0	75.3	78.3	69.1	80.1	78.2	75.2	108.9	122.4	79.2	64.9
Average	72.2	78.1	87.2	81.9	78.9	75.3	77.5	94.4	125.8	111.3	78.1

SANITARY IMPROVEMENTS.

465 insanitary pail closets have been converted to the Water Carriage System during the year, and there are only about 140 Pail Closets now remaining in the Northern District ; these are chiefly situated in the Chapels district of North East Ward. When the war is over the work of conversion will again be proceeded with. Again many drains were discovered in a defective condition, and repaired or relaid, and it was also found necessary to carry out repairs to many sewers.

MANURE PITS.

I made an inspection during June, July of the Manure Midden steads in use in the Northern District and submitted a detailed report at the meeting of the Health Committee. Copies of the bye-laws relating to Midden Steads were sent to the horse keepers in the district, when the middens were emptied a man was sent to spray the walls, etc., with Kerosine in order to destroy the larvæ of flies. There was a very ready response to the letters issued.

At each monthly meeting of the Health Committee, in addition to the printed report, I have have submitted a detailed typewritten Report of the work carried out in my district

Nuisances of various kinds have been abated during the year ; the owners and occupiers have responded to the letters and notices very willingly, and it has only been necessary to institute legal proceedings in one instance, viz. : for the emission of Black Smoke.

Agreement forms have been signed by owners of property in the Northern District for the Corporation workmen to convert pail closets to the water carriage system, to carry out repairs to drains, back yards, waste water closets, etc. The work has been done under my supervision.

I am, Gentlemen,

Yours obediently,

C. R. WALSH, M.R. San. Inst., &c.,
Inspector of Nuisances.

SUPERINTENDENT'S OFFICE.

CLEANSING DEPARTMENT.

To the Chairman and Members of the Health Committee.

Gentlemen,

I beg to submit to you my Annual Report for the year January 1st to December 31st, 1915.

The following is a Summary of Work done from January 1st to December 31st, 1915.

	Tons.	Cwts.	Qrs.
House Refuse to Destructor	12663	6	2
Market Garbage to Destructor	225	12	0
Slaughter Garbage to Destructor	30	0	0
	12918	18	2

Clinkers Removed from Destructor	3596	Loads
Excreta to Sewage Works	2258	,,
Sweepings to Various Tips	2,489	,,
Sweepings Deposited by Handcarts at Destructor	2,420	,,
Gully Wreck to Various Tips	1,022	,,
Water Deposited on Streets	1,328	,,
Snow removed from streets	152	,,
Length of Streets Swept by Machine	213½	Miles.
Length of Streets Swept by Hand	2,333	,,
Street Gullies Emptied	21,362	
Back Yard Gullies Emptied	1,1372	
Excreta Pails Emptied	114,100	
Ashes Tubs Emptied	303523	
Ashpits Emptied	826	
Ashtubs added during the year	62	
Pails Brought in from Closet Conversions	783	

Yours obediently.

JOSEPH NICCOLL,

Cleansing Superintendent

REPORT OF THE SLAUGHTER HOUSES, 1915.

To the Chairman and Members of the Slaughter House Committee.

Gentlemen,

I herewith present to you for your consideration, my Report for the year ending December, 1915, showing the number of Cattle, &c. slaughtered.

PUBLIC ABBATTOIRS.

	1915	1914
Beasts	1451	1609
Sheep	6126	8691
Calves	90	207
Swine	590	514
Showing a decrease for 1915 of 2764 head.	8257	11021

PRIVATE PREMISES.

	1915	1914
Beasts	811	710
Sheep	3760	4507
Calves	82	189
	4653	5406

Showing a decrease for 1915 of 753 head.

TRIPERIES.

In this department there was a scarcity owing to the difficulty in the importation of this class of goods.

TUBERCULOSIS.

There were 20 beasts examined for this disease, a slight increase on last year, the old cows are well watched. Destroyed 4 Beasts and 8 Swine as unfit for food.

BUTCHERS' VANS.

There are few hawkers of Meat in the Borough, through the high prices, these are kept well under observation.

LICENSES ISSUED.

There were issued during the year to Farmers and others Licenses for the slaughtring of one Beast and 26 Swine ; these were inspected and found fit for food.

MEAT CONDEMNED.

There were destroyed as unfit for food 4 Beasts, 2 Sheep, 8 Swine and 2 tons, 4 cwt., 2 qrs., 16 lb. of Offal.

I am,

Yours obediently,

WILLIAM BICKERSTAFFE.

Meat and Shops Inspector.

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